

GenCore version 5.1.6  
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## OM nucleic - nucleic search, using bw model

Run on: December 2, 2005, 14:31:47 ; Search time 341.745 Seconds  
(without alignments)  
7937.378 Million cell updates/sec

Title: US-09-979-558a-1

Perfect score: 1526  
Sequence: 1 ttctgacatgcctccagatt.....acctgcgcgtgatacctc 1526Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

## Database :

Issued Patents NA:\*

- 1: /cgn2\_6/prodata/1/ina/1.COMB.seq:\*
- 2: /cgn2\_6/prodata/1/ina/5.COMB.seq:\*
- 3: /cgn2\_6/prodata/1/ina/6a.COMB.seq:\*
- 4: /cgn2\_6/prodata/1/ina/6b.COMB.seq:\*
- 5: /cgn2\_6/prodata/1/ina/H.COMB.seq:\*
- 6: /cgn2\_6/prodata/1/ina/PCTUS.COMB.seq:\*
- 7: /cgn2\_6/prodata/1/ina/RE.COMB.seq:\*
- 8: /cgn2\_6/prodata/1/ina/RE.COMB.seq:\*
- 9: /cgn2\_6/prodata/1/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1211	79.4	269223	US-09-596-002-41	Sequence 41, Appl
2	1195	78.3	1485	US-08-299-810A-27	Sequence 27, Appl
3	1098.6	72.0	1501	US-09-793-920A-1	Sequence 1, Appl
4	1098.6	72.0	1501	US-09-821-016-5	Sequence 5, Appl
5	1098.6	72.0	1501	US-09-745-476-1	Sequence 1, Appl
6	1098.6	72.0	1501	US-09-748-205-1	Sequence 1, Appl
7	1098.6	72.0	1501	US-09-951-720-1	Sequence 1, Appl
8	1098.6	72.0	1501	US-10-411-319-1	Sequence 1, Appl
9	1098.6	72.0	1501	US-10-105-305-1	Sequence 1, Appl
10	1098.6	72.0	1501	US-10-266-787-5	Sequence 5, Appl
11	1098.6	72.0	1501	US-09-791-610-1	Sequence 1, Appl
12	1098.6	72.0	1501	US-10-252-518-5	Sequence 1, Appl
13	1076	70.5	1542	US-08-114-695A-1	Sequence 1, Appl
14	1073.8	70.4	1481	US-09-737-297-4	Sequence 4, Appl
15	1070.8	70.2	1467	US-09-726-774-3	Sequence 4, Appl
16	1069.2	70.1	1542	US-08-757-653-158	Sequence 158, App
17	1069.2	70.1	1542	US-09-465-355-2	Sequence 2, Appl
18	1069.2	70.1	1542	US-08-520-946-158	Sequence 158, App
19	1069.2	70.1	1542	US-09-655-378A-158	Sequence 158, App
20	1069.2	70.1	1542	US-09-548-998B-33	Sequence 33, Appl
21	1069.2	70.1	1542	US-10-061-071-33	Sequence 33, Appl
22	1062.6	69.6	1541	US-09-726-774-2	Sequence 2, Appl
23	1058.2	69.3	1549	US-09-492-709A-89	Sequence 89, Appl
24	1058.2	69.3	1549	US-09-492-709A-242	Sequence 242, App

25	1058.2	69.3	1549	3	US-09-492-709A-402	Sequence 402, App
26	1053.6	69.0	1518	2	US-08-114-695A-6	Sequence 6, Appl
27	1052.4	69.0	1487	3	US-09-726-774-14	Sequence 14, Appl
28	1046.8	68.6	1424	3	US-10-007-527A-12	Sequence 12, Appl
29	1039.2	68.1	1506	3	US-10-278-942-1	Sequence 1, Appl
30	1039.2	68.1	1506	3	US-10-694-352-1	Sequence 1, Appl
31	1031.2	67.6	1500	3	US-09-726-774-4	Sequence 4, Appl
32	1027.8	67.4	1486	3	US-09-737-297-1	Sequence 1, Appl
33	1025.2	67.2	1544	3	US-09-726-774-5	Sequence 5, Appl
34	1019.8	66.8	1540	3	US-09-228-184-1	Sequence 1, Appl
35	1019.8	66.8	1540	3	US-09-967-376-1	Sequence 1, Appl
36	1016.4	66.6	1429	3	US-09-934-868-81	Sequence 81, Appl
37	1016.4	66.6	1429	3	US-10-701-200-81	Sequence 81, Appl
38	1014.8	66.5	640681	3	US-09-790-988-1	Sequence 1, Appl
39	1008.8	66.1	1830121	3	US-09-557-884-1	Sequence 1, Appl
40	1008.8	66.1	1830121	3	US-09-557-884-1	Sequence 1, Appl
41	1008.8	66.1	1830121	3	US-09-643-990A-1	Sequence 1, Appl
42	1008.8	66.1	1830121	3	US-09-643-990A-1	Sequence 1, Appl
43	1008.8	66.1	1830121	3	US-10-158-865-1	Sequence 1, Appl
44	1008.8	66.1	1830121	3	US-10-158-865-1	Sequence 1, Appl
45	1004.2	65.8	1484	2	US-08-632-470-53	Sequence 53, Appl

## ALIGNMENTS

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RESULT 1
US-09-596-002-41/c
; Sequence 41, Application US/09596002
; Patent No. 6632636
; GENERAL INFORMATION:
; APPLICANT: Lagace, Robert, E.
; APPLICANT: Patterson, Chandra
; APPLICANT: Berg, K.M., L.
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF MORAXELLA CATARRHALIS GENOME
; FILE REFERENCE: PM-0008-4 US
; CURRENT APPLICATION NUMBER: US/09/596,002
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/140,121
; PRIOR FILING DATE: 1999-06-18
; SOFTWARE: PERL Program
; NUMBER OF SEQ ID NOS: 41
; SEQ ID NO 41
; LENGTH: 269223
; TYPE: DNA
; ORGANISM: Moraxella catarrhalis
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte template ID No. 6632636 41
; PUBLICATION INFORMATION:
; US-09-596-002-41

Query Match      79.4%; Score 1211; DB 3; Length 269223;
Best Match Similarity 90.6%; Pred. No. 0;
Matches 1361; Conservative 0; Mismatches 127; Indels 15; Gaps 6;

QY      30 GCGCGAGAGCTTAACATGCAAGTCGAGCGAAGAGCATATGCTTCTATTAGGCGTC 89
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Db      92956 GCGCGAGAGCTTAACATGCAAGTCGAGCGAAGAGCATATGCTTCTATTAGGCGTC 92901
          GCGCGAGAGCTTAACATGCAAGTCGAGCGAAGAGCATATGCTTCTATTAGGCGTC 92901
QY      90 GAGCAGCCGAGCGGAGGAGTAATCTAGGAATCTAGTGTGGGGATAGTCTGGG 149
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Db      92900 TTAGTGGCGGAGCGGAGGAGTAATCTAGGAATCTAGTGTGGGGATAGTCTGGG 92841
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QY      150 GAACTCGAATTATATACCGCATACGTCACGAGGAGAAAGCAGGGGTCATTAGACCTTGC 209
          GAACTCGAATTATATACCGCATACGTCACGAGGAGAAAGCAGGGGTCATTAGACCTTGC 209
Db      92840 GAAACCAAGCTAATACCGCATACGTCACGAGGAGAAAGGCGG-----CTTTAGCTCTC 92785
          GAAACCAAGCTAATACCGCATACGTCACGAGGAGAAAGGCGG-----CTTTAGCTCTC 92785
QY      210 GCTATTAGATGAGCCTTAAGTCGAGTTAGCTAGTGTGGGTTAAAGGCTTACATGCGCA 269
          GCTATTAGATGAGCCTTAAGTCGAGTTAGCTAGTGTGGGTTAAAGGCTTACATGCGCA 269
Db      92784 GCTATTAGATGAGCCTTAAGTCGAGTTAGCTAGTGTGGGTTAAAGGCTTACATGCGCA 92725
          GCTATTAGATGAGCCTTAAGTCGAGTTAGCTAGTGTGGGTTAAAGGCTTACATGCGCA 92725
QY      270 CGATCTGTAGCTGTGTGAGAGGATATCGCACACCGGAGCTGAGAGACGCGCGGAC 329
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156 CGAATTAATCCGATACGCTACGCGGAGAAAGCAGGGGATCTAGAGCTTGGCGTATT 215  
117 CAAGCTAATACCGCATACGACTACGCGGTAAAGGGG---CTTTAGCTCTCGCTAATT 172  
216 AGATGAGCCTTAAGTCCGGAATTAGTAGTGGGGGTAAAGGCTTACCATATGCGACGATCT 275  
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276 GTAGTGGTCTGAGAGAGATGATCAGCCACACCGGGACTGAGACAGCGCCGACT-CTAC 334  
233 GTAGTGGTCTGAGAGAGATGATCAGCCACACCTGGGACTGAGACAGCGCCGACTCTTAC 292  
335 GGGAGCAGCAGTGGGGAAATTGGA CAATGNGGGAACTCTGATCAGCAGCGCGGT 394  
293 GGGAGCAGCAGTGGGGAAATTGGA CAATGNGGGAACTCTGATCAGCAGCGCGGT 352  
395 GTGTGAAGAAGGCTTTTGGTTTAAAGCACTTTAAGCAGTGAAGAAGACTCTTGGTTA 454  
353 GTGTGAAGAAGGCTTTTGGTTTAAAGCACTTTAAGTGGGAGAGAAAAGCTTATGGTTA 412  
455 ATACCGGGGACGATGACATTAGCTGCAAAATAGCACCGGCTTACTGTGTCAGACGC 514  
413 ATACCCATTAAGCCCTGACGTTACCA CAGAAATAGCACCGGCTTACTGTGTCAGACGC 472  
515 CCGGCTAATACAGAGGTGCAACGCTTAACTCGGACCTTAAAGCGACGAGCGTACG 574  
473 CCGGCTAATACAGAGGTGCAACGCTTAACTCGGACCTTAAAGCGGCGGCGTACG 531  
575 TGGCTTGAATAGTCAGATGGAATCCCGGGCTTAACTCGGGAACCTGATCTGAAACTG 634  
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635 TTAGGCTAGATAGTGAGAGGGAAGTGAATTTCAAGTGTAGCGGTGAATTCGTAGAG 694  
592 GATTAACATAGATAGTGAGAGGAGGAGTGAATTTCAAGTGTAGCGGTGAATTCGTAGAG 651  
695 ATCTGAAGAATATCCGATGCGAAGGAGAGCTTCTGTCATCATATGACATGAGGCTCG 754  
652 ATCTGAAGAATATCCGATGCGAAGGAGAGCTTCTGTCATCATATGACATGAGGCTCG 711  
755 AAGGCGTGGGTAGCAAA CAGGAATTAGTACCTGCTGTAGTCAACGCGCTTAAACATGCTA 814  
712 AAGGCGTGGGTAGCAAA CAGGAATTAGTACCTGCTGTAGTCAACGCGCTTAAACATGCTA 771  
815 CTAGTGGTGGGTCCTTGAAGGACTTATGATGACGAGCTTAA CCGAATATGATGACCGGCTG 874  
772 CAGTGGTGGGTCCTTGAAGGACTTATGATGACGAGCTTAA CCGAATATGATGACCGGCTG 831  
875 GGGAGTACGGCCGCAAGGTTAAATCTAAATGAAATTGA CCGGGGCCCGCAACAGCGGTG 934  
832 GGGAGTACGGCCGCAAGGTTAAATCTAAATGAAATTGA CCGGGGCCCGCAACAGCGGTG 891  
935 AGATGAGTGGTTAATTGATGCAACGCGAAGAACTTACCTGCTTGA CATAACAGAA 994  
892 AGATGAGTGGTTAATTGATGCAACGCGAAGAACTTACCTGCTTGA CATAACAGAA 951  
995 TCTTGTAGAGTACGAGAGTGCCTTCCGGAAATTGTGATACAGGTGCTGATGCTGTGCT 1054  
952 TCTTGTAGAGTACGAGAGTGCCTTCCGGAAATTGTGATACAGGTGCTGATGCTGTGCT 1011  
1055 CAGCTCGTGTGTAGATGTTGGGTTAAGTCCGCAACGAGCGCAACCTTTTCTTAACT 1114  
1012 CAGCTCGTGTGTAGATGTTGGGTTAAGTCCGCAACGAGCGCAACCTTTTCTTAACT 1071  
1115 TACAGAGACTTCCGGGTGGGAATCTTAAGATACAGGAGTGA CAATCTGAGAGAGGCGG 1174  
1072 TACAGAGACTTCCGGGTGGGAATCTTAAGATACAGGAGTGA CAATCTGAGAGAGGCGG 1131  
1175 GGAAGAGTCAATCATATGAGCCCTTAAAGCAACGAGGCTTAA CAGCTGTCTCAATGCTAG 1234  
1132 GGAAGAGTCAATCATATGAGCCCTTAAAGCAACGAGGCTTAA CAGCTGTCTCAATGCTAG 1191  
1235 GTACAGAGGAGCTTAAACAGAGATGTGATGCGAATCTCAAAAAGCCTATGTGTGCTAG 1294

1192 GTACAAAGGGTGTGTACACAGGAGTGTGATGTGTAATCTCAAAAAGCCTATGATCCGG 1251  
1295 ATTGAGTCTGCAACTGCACTCCATGATAGTGAATTCGTAGTAAATTCGGGATCAGAAATG 1354  
1252 ATTGAGTCTGCAACTGCACTCCATGATAGTGAATTCGTAGTAAATTCGGGATCAGAAATG 1311  
1355 CCGCGGTGAATGCTTCCGGGGCTTGTACACACGCGCCGTCACACATGAGGAGTTGATT 1414  
1312 CTGCGGTGAATGCTTCCGGGGCTTGTACACACGCGCCGTCACACATGAGGAGTTGATT 1371  
1415 GCACCAAGAGTGGTTAGCTTAACTTATGAGAGGCGATCAACACGCTGTGTGATGATCTG 1474  
1372 TCACCAAGAGTGGTTAGCTTAAAGCA-AGAGGCGATCAACACGCTGTGTGATGATCTG 1430  
1475 GGGTGAAGTGTGAACAAGTACCGTGAAGGAACTTCCGCTGTGATCACTC 1526  
1431 GGGTGAAGTGTGAACAAGTACCGTGAAGGAA-CTGCGGCTGTGATCACTC 1481

RESULT 3  
US-09-793-920A-1  
; Sequence 1, Application US/09793920A  
; Patent No. 6479621  
; GENERAL INFORMATION:  
; APPLICANT: Canon Inc.  
; TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxythienylalkanoic acid as  
; FILE REFERENCE: 4396021  
; CURRENT APPLICATION NUMBER: US/09/793,920A  
; CURRENT FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 1  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii 161 strain.  
US-09-793-920A-1

Query Match 72.0%; Score 1098.6; DB 3; Length 1501;  
Best Local Similarity 85.9%; Pred. No. 0;  
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

30 GGGGCGAGGCTTAAACATGCAAGTGCAGCGGAAAGATGATAGCTTGAATGAGCGTC 89  
9 GGGGCGAGGCTTAAACATGCAAGTGCAGCGG--ATGACGCGAGCTTGTCTCTGAATTC 66  
90 GAGCAGCGGCGAGGCTGATGATTAATGAGATCTTACCTGATGAGGAGATGCTCGG 149  
67 G---CGGCGAGCGGTGATGATGCTTACGGAATCTGCTGTGAGGAGCAACGCTC 123  
150 GAAACTGCAATTAATACCGCATACGT-CTACGGGAGAAAGCAGCGGATCTTGAACCTTG 208  
124 GAAAGGAGCGCTAATACCGCATACGTCTACGGGAGAAACAGGCGACCTTCCGGCCTTG 183  
209 CGCTAATGATGAGCCCAATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 268  
184 CGCTAATGATGAGCCCAATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 243  
269 ACGATCTGTGCTGTGCTGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATG 328  
244 ACGATCTGTGCTGTGCTGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATG 303  
388 GCGGCGTGTGAGAAAGGCTTTTGGTTTAAAGCACTTAAAGCACTTAAAGCACTTAAAGCA 447  
329 CT-CTACGGGAGCAGAGTGGGAAATTTGGA CAATGAGGGAACCTTGAATCCAGCAT 387  
304 CTCTACGGGAGCAGAGTGGGAAATTTGGA CAATGAGGGAACCTTGAATCCAGCAT 363  
364 GCGGCGTGTGAGAAAGGCTTTTGGTTTAAAGCACTTAAAGCACTTAAAGCACTTAAAGCA 423  
448 TCGGTTAATACCGGCGGAGCATGATTAAGCTGAGATTAAGCAACCGGCTTAATCTGTGTC 507  
424 TAACTTAATACGTTAGTGTGTTTGAAGCTTAAAGCACTTAAAGCACTTAAAGCACTTAAAG 483

OY	508	CAGCAGCCCGGGTAATACAGAGGGGTCAAGCGTTAATCGGAATTAATCTAGGGCGTAAAGCGA	567
Db	484	CAGCAGCCCGGGTAATACAGAGGGGTCAAGCGTTAATCGGAATTAATCTAGGGCGTAAAGCGC	543
OY	568	GGGTAGTGGCTTGATTAAGTCAGATGTGAATATCCCGGGCTTAACTGGGAATGCATCT	627
Db	544	GGGTAGTGGTTTGTTAAGTTGGATGTGAAGCCCGGGCTCAACCTGGGAACTGCATTC	603
OY	628	GAAACTCTTAAGGCTAGAGTAAGTGAAGGGAAGTAAATTTCAAGGTGTAGCGGTGAATG	687
Db	604	AAAACTGACAAACTAAGATAGTATAGGTAAAGGGTGTGAATTTCTGTGTAGCGGTGAATG	663
OY	688	CGTAGAGATCTGAAGGAATACCAATGGCCGAAGGACGTTTCTGCGAATCATACTGACACTG	747
Db	664	CGTAGATTAAGGABAGAACACCAAGTGGCCGAAGGCGACCACTTGACTGATTAATCTGACACTG	723
OY	748	AGGCTCGAAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCAGCGCGTAAACG	807
Db	724	AGGTGCGAAAAGCGTGGGGAGCAAAACAGATTAGATACCTGTAGTCCAGCGCGTAAACG	783
OY	808	ATGTCTACTAGTCGTTGGGTCCCTTGAAGACCTTAAGTACGCACTTAAACGAATTAAGTGA	867
Db	784	ATGTCAACTAGCCGCTGTGGAGCCTTTAGCTCTTAGTGGCGCACTTAACGATTAAAGTTGA	843
OY	868	CCGCTGGGGAGTACCGCCGCAAGGTTTAAACTCAATGAATGAACGGGGGGCCCGCACAA	927
Db	844	CCGCTGGGGAGTAAACGCCCGCAAGGTTTAAACTCAATGAATGAACGGGGGCCCGCACAA	903
OY	928	GGCGTGAAGCAATGTGTTTAATTCGATGCACGCGAAGAACCTTAACTGTCTTTGACATA	987
Db	904	GGCGTGAAGCAATGTGTTTAAATTCGAAGCAACCGAAGAACCTTAACTGTCTTTGACATC	963
OY	988	CACAGAACTTGTAGAGATACAGAAATGCTTGGGAAATTGATACAGGTGCTGCATGG	1044
Db	964	CAATGAATCTTCCAGAGATGATGGGTGCTTGGGAACTTAAGACAGGTGCTGCATGG	1020
OY	1048	CTGTGCTAGACTGTGTCTGTAGATGTTGGTTAAGTTCGCCGAACGACGCAACCTTGT	1104
Db	1024	CTGTGCTAGACTGTGTCTGTAGATGTTGGGTTAAGTCCCGTAAACGACGCAACCTTGT	1080
OY	1108	CCTTAGTTTACAGACAC-TTCGGGTGGGAATCTTAAGATATCTGCCAGTGAACAACTGGAG	1166
Db	1084	CCTTAGTTTACAGACACGTAATGGTGGCACTTCAAGAGACCTCCGGTGAACAAACCGGAG	1144
OY	1167	GAAAGCGGGGAGCAAGCTCAAGTATATAGGCCCCCTTACGACCAAGGCTTACACAGTGTAC	1222
Db	1144	GAAAGTGGGGAGTACGCTCAAGTATATATAGGCCCTTACGAGCTGGGCTTACACAGTGTAC	1200
OY	1227	AATGTAGGTACAGAGGGGACGCTTACACAGCGATGTATGGCAATCTCAAAAGCCTATCG	1288
Db	1204	AATGTGCGGTACAGAGGGTTGCGCAACGCCGAGAGTGAAGCTTATCCCAAAACCGATCG	1266
OY	1287	TAGTCCAGATTGGAAGTCTTGCAACTCGATCTCAATGAAGTAGGAATTCGTAGTAATTCGCGA	1344
Db	1264	TAGTCCGATTCGAGCTGCAACTCGATCTGCGAAGTGGAAATTCGTAGTAATTCGCGAA	1322
OY	1347	TCAGAAATGCGCGGTGAATAGCTTCCCGGAGCTTGTACACACCGCCCGTACACCAATGGG	1404
Db	1324	TCAGAAATGTCGCGGTGAATAGCTTCCCGGGCTTGTACACACCGCCCGTACACCAATGGG	1380
OY	1407	AGTTGATTTGCACAGAGTGTAGCTTAACTTAACTGAGAGGCGATCACCAAGGTGTGT	1466
Db	1384	AGTGGATTGCACACAGAAATAGCTAATCACTTCCGGAGAGACGGTTTACCAAGGTGTGT	1444
OY	1466	CGATGACTGGGGGTGAAGTGTGAACAAGATACCGGTAGGGGAACCTGCGGTGTATCAC	1523
Db	1444	TCATGACTGGGGGTGAAGTGTGAACAAGATACCGGTAGGGGAACCTGCGGTGTATCAC	1501

; Patent No. 6485951  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CANON INC.  
 ; TITLE OF INVENTION: polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme  
 ; FILE REFERENCE: 4051021  
 ; CURRENT APPLICATION NUMBER: US/09/821, 016  
 ; CURRENT FILING DATE: 2001-03-30  
 ; NUMBER OF SEQ ID NOS: 11  
 ; SOFTWARE: Microsoft Word  
 ; SEQ ID NO 5  
 ; LENGTH: 1501  
 ; TYPE: DNA  
 ; ORGANISM: *Pseudomonas jesseni* P161 ; BP-7376  
 ; FEATURE:  
 US-09-821-016-5  
  
 Query Match 72.0%; Score 1098.6; DB 3; Length 1501;  
 Best Local Similarity 85.9%; Pred. No. 0;  
 Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

Db	784	ATGTCAACTAGCCGTTGGAGCCCTTGAGCTCTTAAATGACGCACTTAAGTTGA	8433
Oy	868	CCCCCTGGGGAGTACGCGCCGCAAGTTTAAATCTCAATAGAAATTTGACGGGGGCCCGCACAA	9272
Db	844	CCCCCTGGGGAGTACGCGCCGCAAGTTTAAATCTCAATAGAAATTTGACGGGGGCCCGCACAA	9030
Oy	928	GCGGTGAGCAGTATGGTTTAATTCGATGCAACGCGAAGAACCTTAAGTCTTGTGAACA	9877
Db	904	GCGGTGAGCAGTATGGTTTAATTCGATGCAACGCGAAGAACCTTAAGTCTTGTGAACA	9631
Oy	988	CACAGAACTCTTGAAGATTAACGAGATGCTCCGGGAATTTGATTAACAGGTGCTGCAATG	1043
Db	964	CAATGAACCTTTCAGAGATGAGATGGGTGCTTCGGGAACATTTGAGAACAGGTGCTGCAATG	1021
Oy	1048	CTGTCCGTCAGCTGCTGTGTCGAGATTTTGGTTAAAGTCCCGCAACGACGCAACCTTGT	1101
Db	1024	CTGTCCGTCAGCTGCTGTGTCGAGATTTTGGTTAAAGTCCCGTAAACGACGCAACCTTGT	1081
Oy	1108	CCTTATGTTACCAACAC- TTCCGGGTGGGAACCTTAAGATTAAGTCCGATGCAAACTGAG	1148
Db	1084	CCTTATGTTACCAACACGTAATGGTGGGCACTTAAGAGAGACTGCGGTGCAAAACCGAG	1144
Oy	1167	GAAAGCGGGGACGACGCTCAAGTCAATGATGGCCCTTAACGACAGGGCTTACACGCTGCTAC	1221
Db	1144	GAAAGTGGGGATACGTCGAAGTATATATGATGACCTTACCGGCTGAGCTACACGCTGCTAC	1201
Oy	1227	AATGTGTAGTACAGAGGGCGAGCTTACACAGCTGTGATGTCGAAATTTCAAAAAGCTTATCG	1281
Db	1204	AATGTGTGCTACAGAGGGTGGTCCCAACCGCGAGGTGAGCTTAATCCCAAAACGATGCG	1261
Oy	1287	TAGTCAGATTTGAGAGTCTGCACTGACTTCCATGAAGTAAAGATGCTTAATTCGCGGA	1341
Db	1264	TAGTCGCGGATCGCAGTCTGCACTGCGTGAAGTGGAAATGCTTAATTCGCGGA	1321
Oy	1347	TCGAATGCGCGGTGAAATACGTTCCCGGGCCTTGTACACACGGCGGTACACCATGGG	1401
Db	1324	TCGAATGCGCGGTGAAATGTTCCCGGGCCTTGTACACACGGCGGTACACCATGGG	1381
Oy	1407	AGTTGATTGCAACGAAAGTGTATAGCTTAA-CTTAAGTGAAGGCGATTCACACGCTGTGCT	1461
Db	1384	AGTGGGTTGCAACGAAAGTGTATAGCTTAACTTCCGGGAGGACGGGTTACACGGGTGTAT	1441
Oy	1466	CGATGACTGGGGTGAAGTCTTAACAAAGTACCGCTGAGGGAACTCTGCGGCTGATTCAC	1523
Db	1444	TCATGACTGGGGTGAAGTCTTAACAAAGTACCGCTGAGGGAACTCTGCGGCTGATTCAC	1501
RESULT 5			
US-09-745-476-1			
Sequence 1, Application US/09745476			
Patent No. 6521429			
GENERAL INFORMATION:			
APPLICANT: CANON INC.			
TITLE OF INVENTION: Preparation of Poly-hidroxyalkanoic Acid			
FILE REFERENCE: 4351008			
CURRENT APPLICATION NUMBER: US/09/745,476			
CURRENT FILING DATE: 2000-12-26			
NUMBER OF SEQ ID NOS: 1			
SOFTWARE: Microsoft Word			
SEQ ID NO 1			
LENGTH: 1501			
TYPE: DNA			
ORGANISM: Pseudomonas jessenii p161 ; PERM P-17445			
US-09-745-476-1			

Query Match	72.0%	Score 1098.6	DB 3	Length 1501
Best Local Similarity	85.9%	Pred. No. 0		
Matches 1877	Conservative	0	Mismatches 202	Indels 9
				Gaps 6
Qy	30	GGCGGAGGCTTAAACATGCAAGTCGAGCGGAAACGATGATAGCTTCTATTAGCGCTC	89	
Db	9	GGCGGAGGCTTAAACATGCAAGTCGAGCGG--ATGACGGAGGCTTCTCTCTGATTTCA	66	

QY	90	GAACGCCCGGACCGGTAGTAATTA	CTTAAGAAATCTA	CTTAAGTGGGGAGTAAGTCTGGG	149	
Db	67	G---	CGGCGGACGGGTAGTAATGCTT	AGAAATCTGGTGGGACAAAGTCTC	123	
QY	150	GAACCTGAATTAATACCGCAATAGT	-CTA	CGGAGGAAGCAGGGGAGTCA	TTAAGACTTG	208
Db	124	GAAGGGACGCTAATACCGCATACCT	CTTA	CGGAGGAAGCAGGGGACCTT	GGGGCTTG	183
QY	209	CGCTATTAGATAGCCCTTAAGT	CGAATTAAGT	GTGGGTAAAGCTTCA	TGCGG	268
Db	184	CGCTATCAGATGAGCTTAAGT	GTGGATTAAGT	TAAGTGGATTAATGGCTCA	CAAGGCG	243
QY	269	ACGATCTGTAGCTGTCTTGA	AGATGATCAGCCAC	CCGGAGCTGAGACAGCGCCGGA	328	
Db	244	ACGATCCGTTAATCTGCTCTG	AGAGTGTCACTCACTG	GAATCTGAGCACAGCGTCCAGA	303	
QY	329	CT-CTACGGGAGCGACGATGGGGAA	TAATMGACAATG	GGGGAACCCGTAATCCAGCCAT	387	
Db	304	CTCTACCGGAGGCGACGATGGGGAA	TAATMGACAATG	GGGGAACCCGTAATCCAGCCAT	363	
QY	388	GCCGCGTGTGAGAAAGACCTTTT	GGTGTAAACACTTTTA	AGCAGTGAAGAAACCTCT	447	
Db	354	GCCGCGTGTGAGAAAGACCTTT	GGTGTAAACACTTTTA	AGTGGAGGAAGGCAAT	423	
QY	448	TCGGTTAATACCCCGGGGACGAT	GATTAAGCTGAGAAATAG	CACCGGCTAACTCTGTGC	507	
Db	424	TAACCTAATACGTTAGTGT	TTTGAAGTTTGAAGTTTGA	AGCAAGAAATAGCACCGGCTA	CTGTGC	483
QY	508	CAGCAGCCCGGTAAATACAGAGG	GTGCAGAGCTTAATCGGAATTA	CTGGGCTTAAAGCA	567	
Db	484	CAGCAGCCCGGTAAATACAGAGG	GTGCAGAGCTTATCGGAATTA	CTGGGCTTAAAGCA	543	
QY	568	GGGTAGTGGCTTGAATTAAGT	CAGATGTAAATCCCCGGGCTTA	ACCTGGGAATCGCATCT	627	
Db	544	GCGTAGTGGCTTGTAAAGT	GTGAAGTGTAAAGCCCCGGGCT	CAACCTGGGAATCTGATTC	603	
QY	628	GAACCTGTTAGGCTAGAGT	AGTGAAGAGGAAGTGAATTT	CAGGTGAGCGGTGAATG	687	
Db	604	AAAACTGAACAGCTAGAT	GTGTAGAGGGTGTGGAATTT	CTGTGTAGCGGTGAATG	663	
QY	688	CGTAGAGATCTGAAGAATA	CCGATGGCGGAAGGCAAGCTT	CTGGCATCTACTGACACTG	747	
Db	664	CGTAGATCTGAAGAAGAA	CACCAAGTGGCGGAAGGCAAC	CTGGCATCTGACTGACACTG	723	
QY	748	AGGCTCGAAAGGTGGGTAG	CAACAAGATTAGATACCT	TGTAGTCCAGCGCGTAAAG	807	
Db	724	AGGTGCGAAAGGTGGGTAG	CAACAAGATTAGATACCT	TGTAGTCCAGCGCGTAAAG	783	
QY	808	ATGTCTAATAGTCTGTGGGT	CCCTTGAAGGACTT	TAGTGAAGCACTTAACCAATTA	ATAGTAG	867
Db	784	ATGTCTAATAGTCTGTGGGT	CCCTTGAAGGACTT	TAGTGAAGCACTTAACCAATTA	ATAGTAG	843
QY	868	CGGCTGGGAGTACGGCCG	CAAGGTTAAACTCAATG	AATTTGACGGGGGCCCGCACAA	927	
Db	844	CGGCTGGGAGTACGGCCG	CAAGGTTAAACTCAATG	AATTTGACGGGGGCCCGCACAA	903	
QY	928	GGGTGTGAGACATGTGTT	TAATTCATGTGAAGCGCAAGAA	ACCTTAACGTGTCTTGACATA	987	
Db	904	GGGTGTGAGACATGTGTT	TAATTCATGTGAAGCGCAAGAA	ACCTTAACGTGTCTTGACATA	963	
QY	988	CACAGAACTTGTAGAGAT	CAGAGAGTCCCTCGGAAATTT	GTGATCAGGTCTCGATG	104	
Db	964	CAATGAATCTTCCAGAGAT	GATGGGTGCTTCGGGAACATT	GTAGACAGGTCTGATGG	102	
QY	1048	CTGTGCTAGCTCTGTGCT	GTGAAGATGTTGGGTTAAAGT	CCGCAACGAGCGCAACCTTGT	110	
Db	1024	CTGTGCTAGCTCTGTGCT	GTGAAGATGTTGGGTTAAAGT	CCGCAACGAGCGCAACCTTGT	108	
QY	1108	CCTTAGTTACAGCAC-TC	CGGGTGGAACTCTTAAG	ATATCTCCAGGTACAAACTG	GAG	116
Db	1084	CCTTAGTTACAGCAC	CGTATATGTGGGCACTTA	AGGAACATCGCCGTTACAAACCG	GAG	114

Db  
1084 CCTTAGTTACGACGCGTATGCTGGGACCTTAAGAGACTGCGGTGACAAACCGAG 114

QY	1167	GAAAGCGGGGACGACGTCGAATCAATGAGCCCTTACGACCAAGGGCTTACACACGTGTCTAC	1226
Db	1144	GAAAGTGGGGATGACGTCAAGTTCATCAATGAGCCCTTACCGGCTTGGAGCTTACACACGTGTCTAC	1203
QY	1227	AATGGTAGAGTACAGAGGGGAGCTACACAGCGATGTGATGCGAATCTCAAAAAGGCTTACG	1286
Db	1204	AATGGTCGGTACAGAGGGGTGGCCAAAGCCGAGGGTGAAGCTTAATTCACAAAACCGATCG	1263
QY	1287	TAGTTCAGATTGGAAGTCTGCAACTGCACTCATGATGAGGAAATCGTAGTAAATCGCGGA	1346
Db	1264	TAGTCCGAGATCGCAGTCTGCAACTGCACTGGGTGAAGTCGGAATCTGATGAAATCGCGAA	1323
QY	1347	TCAGAAATCCGCGGTTAACTACGTTCCCGGGCTTTGTACACACCGCCGTCACACCTATGGG	1406
Db	1324	TCAGAAATCGCGGTTAACTACGTTCCCGGGCTTTGTACACACCGCCGTCACACCTATGGG	1383
QY	1407	AGTTGATTGCAACCAAGAGTGGTTAGCTTAA-CTTAAGTAGGGCGATCTCACCGGTGTGGT	1465
Db	1384	AGTGGATTGCAACCAAGAGTACTAGTCTAACCTTCGGAGGAGCAGTTTACCAACGGTGTGAT	1443
QY	1466	CGATGACTGGGGGTAAAGTCTTAAACAAGTAAACCTGTAAGGGAAACTTCGGGCTGTGATCAC	1523
Db	1444	TCATGACTCGGGGTGAAGTCTTAAACAAGTAAACCTGTAAGGGAAACTTCGGGCTGTGATCAC	1501

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RESULT 6
US-09-748-205-1
; Sequence 1, Application US/09748205
; Patent No. 6586562
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxyalkanoate its manufacturing method, and microorganism
; TITLE OF INVENTION: those are used for the method.
; FILE REFERENCE: 4351009
; CURRENT APPLICATION NUMBER: US/09/748, 205
; CURRENT FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-748-205-1

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Query Match	72.0%	Score 1098.6;	DB 3;	Length 1501;
Best Local Similarity	85.9%	Pred. No. 0;		
Matches 1287; Conservative	0;	Mismatches 202;	Indels 9;	Gaps 6;

Qy	30	GGCGGACGGCTTAACATGCAATGACGCGGGAAACAATGATCTTGATATTAGGCGTC	89
Db	9	GGCGGACGGCTTAACATGCAATGACGCGGG--ATGCGGGAGCTTGCTCTTAATTCA	66
Qy	90	GAGCGCGGACGGGTAGTAATACTTAGAATCTACCTAGTAGTGGGGATACCTCGG	149
Db	67	G---CGGGGACGGGTAGTAATGCTTAGAATCTGCTGTAGTGGGGGCAACGTCCTC	123
Qy	150	GAACATGAAATTAATACCGCATACGT-CTACGGGGAAGAAAGAGGAGATCATTAACCTTG	208
Db	124	GAAGGGACGCTAATACCGCATACGTCCTACGGGGAAGAAAGAGGAGACCTTCGGGCTTG	183
Qy	209	CGCTATTAGTAGACCTTAAGTCGGATTAGCTAGATGCGGGTTAAAGGCTTAACATGACG	268
Db	184	CGCTATCGATGAGCGCTAAGTCGGATTAGCTAGATGCGGGTTAAAGGCTTAACATGACG	243
Qy	269	ACGATCTGTAGCTGCTTGAAGAGATGATCAACCAACCGGAGCTAGAGACCGGCGCGGA	328
Db	244	ACGATCTCTTAATGCTGTGAGAGAGATGATCACTCGAATCTGAGACACGGTCCAGA	303
Qy	329	CT-CTACGGGAGGCGAGCTGGGGGAAATTGGAACAATGAGNGGAAACCTGTATCAGGCAT	387
Db	304	CTCTACGGGAGGCGAGCTGGGGGAAATTGGAACAATGAGNGGAAACCTGTATCAGGCAT	363
Qy	388	GCCGCGTGTGGAAGAGGCGCTTTGGTTGTAAAGCACTTTAGCAGTGAAGAGACTCT	447

Dp	364	GC	CCGCGTGTGTAAGAAAGGCTCTTCGGATTGTAAAGCATTAAAGTTGGAGGAAGGCAT	423
Qy	448	TC	GGTTAAATCCCGGGGACGATGACATTAGCTCGAGATTAAGCACCGGCTAACTCTGTGC	507
Dp	424	TA	ACCTAATACGTTAGTGTTTTGACGTTACCGACAGAAATAAGCACCGGCTAACTCTGTGC	483
Qy	508	CAG	CACCGCGGGGTAAATCAGAGGGTGCAGACGTTAATCGGAATTACTGGGCGTTAAAGCA	567
Dp	484	CAG	CAGACCGCGGGTAATCAGAGGGTGCAGACGTTAATCGGAATTACTGGGCGTTAAAGCA	543
Qy	568	GC	GTAGGTGGCTTGATTAAGTCAGATGTGAATCCCGGGCTTTAACTGGGGAATCGATCT	627
Dp	544	GC	GTAGGTGGCTTTGTTAAGTTGATGTGAAGCCCGGGCTCAACTGGGGAATCGATCTC	603
Qy	628	GAA	ACTTTAGGCTAGAGTAGAGTGAAGGGAAGTAATTCAGGTGTAGCCGTGAATG	687
Dp	604	AAA	ACTGACAAAGCTAGAGTAGAGTGAAGGAGGTGGGAATTTCCGTGTACCGGGAATG	663
Qy	688	CG	TAGAGATCTGAAGGAATCCGATGGCGAAGGCACTTCTTGGCATCATCTGACACTG	747
Dp	664	CG	TAGATATAGGAAGGAACACAGTGGCGAAGGCGACCACTGGACTGATCTGACACTG	723
Qy	748	AG	CTCGAAAGCGGGGTAGCAAAACGGAATTAAATCCCTGTAGTGTACAGCCGTTAACG	807
Dp	724	AG	GTGCGAAAGCGGGGAGCAAAACGGAATTAAATCCCTGTAGTGTACAGCCGTTAACG	783
Qy	808	AT	GTCTACTAGTCGTTGGTCCCTTGAGCACTTAGTACCGACCTAACCGCAATAAGTAGA	867
Dp	784	AT	GTCAACTAGCCGTTGGAGCCTTAGAGCTCTTAGTGGCGCACCTAACCGCAATAAGTTGA	843
Qy	868	CC	GCCTGGGGAGTACGGCCCGCAAGGTTAAATCTCAATGAATTGACGGGGCCCGCAAA	927
Dp	844	CC	GCCTGGGGAGTACGGCCCGCAAGGTTAAATCTCAATGAATTGACGGGGCCCGCAAA	903
Qy	928	GC	GTGAGAGATGGGTTAATTCATGCAACCGCAAGACCTTAACCTGTCTTTGAATATA	987
Dp	904	GC	GTGAGAGATGGGTTAATTCATGCAACCGCAAGACCTTAACCGGCTTTGAATATC	963
Qy	988	CAC	AGAAATCTTTGTAAGATACGAGAGTGCCTTCGGGAAATTGTGATACAGGTGCTGATCG	1047
Dp	964	CA	ATGAACCTTCCAGAGATGGATGGGTCTTTCGGGAACATTAGACAGGTCCTGATCG	1023
Qy	1048	CT	GTCTGACGCTGTGTCTGTAGATGTTGGGTTAAAGTCCCGCAACGAGCGCAACCTTGT	1107
Dp	1024	CT	GTCTGACGCTGTGTCTGTAGATGTTGGGTTAAAGTCCCGTAAACGAGCGCAACCTTGT	1083
Qy	1108	CC	TTAAGTTAACAGACACCTTCGGGTGGGAATCTTAAGATATCTGCCAATGCAAACTGGAG	1166
Dp	1084	CC	TTAAGTTAACAGACACCTTAATGTGTGGCACTCTTAAGAGACCTCCGGTGTCAAAACCGGAG	1143
Qy	1167	GAA	AGCGGGGACGACGTCAGTCAATCATCTGAGCCCTTAACGACCAAGGGCTACACACGTGTAC	1226
Dp	1144	GAA	AGGTGGGAGTACGTCAGTCAATCATCTGAGCCCTTAACGAGCTGTGGCTACACACGTGTAC	1203
Qy	1227	AA	TGTAGGTAGTACAGAGGGCACTACACAGGATGTGATGCGAAATCTTCAAAAAGCTATCG	1286
Dp	1204	AA	TGTGTGTGTACAGAGGGTGTCCAAAGCCGAGGTGAGCTAATCCACAAAACCGATCG	1263
Qy	1287	TA	GTCCAGATTGGAAGTTCCGAACTCGACTCCATGAAGTAGAATCGTAACTATCCGCGA	1346
Dp	1264	TA	GTCTCCGATCGCAGTCTGCACTCGACTTCGTTGAAGTCCGAATCGCTAATATCCGGAA	1323
Qy	1347	TC	GAATGCGCGGGTGAATACGTTTCCCGGGCTTTGACACACCGCCGCTGACACCAATGGG	1406
Dp	1324	TC	GAATGTCGGGTGAATACGTTTCCCGGGCTTTGACACACCGCCGCTGACACCAATGGG	1383
Qy	1407	AG	TTGATTTGACACGAGTGTGTAGCCTAACTTAAGTGAAGGCGATACCAACGGTGTGGT	1465
Dp	1384	AG	TGTGGTTTGACACGAGTAGTACGTACTAATCTTTGGAGAGACGGTTAACACACGGTGTGAT	1443
Qy	1466	CG	ATGACCTGGGGTGAAGTCTGTAAACAAAGTACCCGTAGAGGGAACCTTCGCGCTGATCAC	1523
Dp	1444	TC	ATGATTTGGGGTGAAGTCTGTAAACAAAGTACCCGTAGAGGGAACCTTCGCGCTGATCAC	1501



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RESULT 7
US-09-951-720-1
; Sequence 1, Application US/09951720
; Patent No. 6635782
; GENERAL INFORMATION:
; APPLICANT: Canon Kabushiki Kaisha
; TITLE OF INVENTION: Polyhydroxylkenate and Manufacturing Method Thereof
; FILE REFERENCE: 4477001
; CURRENT APPLICATION NUMBER: US/09/951.720
; PRIORITY FILING DATE: 2000-09-14
; PRIORITY APPLICATION NUMBER: JP 279900/2000
; JP 378827/2000
; JP 165238/2001
; JP 165509/2001
; JP 275063/2001
; PRIORITY FILING DATE: 2000-09-14
; 2000-12-13
; 2001-05-31
; 2001-05-31
; 2001-09-11
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-951-720-1

Query Match      72.0%; Score 1098.6; DB 3; Length 1501;
Beet Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY 30 GGGCGACGGCTTAACATCAAGTCGAGCGGAAACGATAGCTTCTATTAGGCGTC 89
DB 9 GGGCGACGGCTTAACATCAAGTCGAGCGGAAACGATAGCTTCTATTAGGCGTC 66
QY 90 GAGCGCGGACGGGTGATGATTAATCTAGGATCTAGTGGGGATAGCTCGG 149
DB 67 G---CGGCGGACGGGTGATGATTAATCTAGGATCTAGTGGGGATAGCTCGC 123
QY 150 GAAATCGAATTATACCGGATACGT-CTACGGGAGAAAGCGGGATCAATTGACCTTG 208
DB 124 GAAAGGAGCGCTTAATACCGGATACGTCTACGGGAGAAAGCGGGATCAATTG 183
QY 209 CGCTATTAGATGAGCTTAAGTCGATTAAGTGGGTAAAGGCTTACCATGCGC 268
DB 184 CGCTATGATGAGCTTAAGTCGATTAAGTGGGTAAAGGCTTACCATGCGC 243
QY 269 ACGATCTGTAGCTGTCTGAGAGGATGATCAAGCACAACGGGACTGAGACAACGGCCGGA 328
DB 244 ACGATCTGTAGCTGTCTGAGAGGATGATCAAGCACAACGGGACTGAGACAACGGCCGGA 303
QY 329 CT-CTAGGAGAGGAGAGAGTGGGAAATTTGAGCAATGAGGAAACCTTATCCAGGCAT 387
DB 304 CTCTTAGGGAGAGGAGAGTGGGAAATTTGAGCAATGAGGAAACCTTATCCAGGCAT 363
QY 388 GCCGCGTGTGAGAGAGGCTTTTGGTTTGAAGCACTTTAAGCAGTGAAGAGACTCT 447
DB 364 GCCGCGTGTGAGAGAGGCTTTTGGTTTGAAGCACTTTAAGTGGAGAGAGGCGAT 423
QY 448 TCGGTTAATACCGGGGAGCATGACATTAGCTGAGAAATAGCAACGGCTTAATCTGTGC 507
DB 424 TAACTTAATAGTTAGTTTGAAGTTTACCGAAGATAAGCAACGGCTTAATCTGTGC 483
QY 508 CAGAGCGCGGCTTAATCAGAGGAGTGAAGGCTTAATCCGAAATTAATGAGGCTTAAGCA 567
DB 484 CAGAGCGCGGCTTAATCAGAGGAGTGAAGGCTTAATCCGAAATTAATGAGGCTTAAGCA 543
QY 568 GCGTAGGCTGCTGATAGTCAATGTAATCCCGGCTTAACTGGAACCTGCACT 627
DB 544 GCGTAGGCTGCTGATAGTCAATGTAATCCCGGCTTAACTGGAACCTGCACT 603
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QY 628 GAAACTGTAGGCTTAGAGTAGGAGAGGGAATGAAATTTTCAGGTGAGCGGTAATG 687
DB 604 AAAACTGACAGGCTTAAGTATGTTAGAGGCTGTGAAATTTCTGTGTAGCGGTGAATG 663
QY 688 CGTAGAGATCTGAGAGAAATCCGATGCGGAGGCAAGCTTCTGGATCATATGACACTG 747
DB 664 CGTAGATATAGAGAGAAACACAGTGGCCGAGGCGAACCTGAGCTGATATGACACTG 723
QY 748 AGGCTGAAAGCGTGGTGAACAAACGATTAATATCCTGTGTATGTCACGCGCTAAAC 807
DB 724 AGGTGGGAAAGCGTGGGAGGCAAAACGATTAATATCCTGTGTATGTCACGCGCTAAAC 783
QY 808 ATGTCTAGTACGCTGTGGGCTCCTGAGAGCTTAAGTACGACGCTAAGCAATAGTGA 867
DB 784 ATGTCAACTAGCCGTTGGAGGCTTGAAGCTTATGTTGGGACGCTAAGCAATAGTGA 843
QY 868 CCGCTGGGAGTACGCGCCGCAAGTTTAACTCAATGAAATGACGCGGCGCCGCAAA 927
DB 844 CCGCTGGGAGTACGCGCCGCAAGTTTAACTCAATGAAATGACGCGGCGCCGCAAA 903
QY 928 GCGGTGAGCATGTGTTTAATTCGATGCAAGCGGAAACCTTACCTGTCTTGACATA 987
DB 904 GCGGTGAGCATGTGTTTAATTCGATGCAAGCGGAAACCTTACCTGTCTTGACATA 963
QY 988 CACAGAACTCTTAGAGATACGAGAGTGCCTTGGGGAATTTGATACAGGTGCTGATG 1047
DB 964 CAATGAACCTTCCAGAGATGATAGTGGCTTGGGGAACCTTGAACAGAGTGTGATG 1023
QY 1048 CTGTCTCAGCTGCTGTCGTGAGATGTTGGTTAAGTCCCGCAACGAGCCGCAACCTTGT 1107
DB 1024 CTGTCTCAGCTGCTGTCGTGAGATGTTGGTTAAGTCCCGTAACGAGCCGCAACCTTGT 1083
QY 1108 CTTTAGTTACCAACAC-TTCCGCTGGGAACTTAAGATTAATCTGCCAGTGAACAACTGGAG 1166
DB 1084 CTTTAGTTACCAACAGCTAATGTTGGGCACTTAAGGAGACTGCCGTGACAAACCGGAG 1143
QY 1167 GAGGCGGGGAGCAGACGTCAAGTATCATATGCGCTTACGACAGGGCTACACAGCTGTAC 1226
DB 1144 GAGGCTGGGATACGTCGAAGTATCATATGCGCTTACGAGCGCTGGGCTACACAGCTGTAC 1203
QY 1227 AATGTAGTACAGAGGCGCAGTACACAGCAGATGTGGAATCTTCAAAAGCTTATCG 1286
DB 1204 AATGTCTGATACAGAGGCTTCCAGACGCGGAGTGAAGTATCCACAAACCGATCG 1263
QY 1287 TAGTCCAGATTGAGTCTGCACTGCACTCATAGAAATGCTTAAATCGCGGA 1346
DB 1264 TAGTCCAGATTGAGTCTGCACTGCACTGCACTGCAATCGGAATCGTAAATCGCGGA 1323
QY 1347 TCAGAAATGCGCGGTGAATACGTTCCCGGCGCTTGTACACACGCGCGTCAACCATGG 1406
DB 1324 TCAGAAATGCGCGGTGAATACGTTCCCGGCGCTTGTACACACGCGCGTCAACCATGG 1383
QY 1407 AGTTGATTGACACGAAAGTGTAGCTTAA-CTTAGTGAAGGCGATACCAACGCTGTGT 1465
DB 1384 AGTGGGTTGACACGAAAGTGTAGCTTAACTTGGGAGAGACGTTACACAGCTGTGT 1443
QY 1466 CGATGACTGGGAGTGAATCTGTAAACAGTACCGGTAGGGGAACCTGCGCTGATCAC 1523
DB 1444 TCATGACTGGGAGTGAATCTGTAAACAGTACCGGTAGGGGAACCTGCGCTGATCAC 1501

RESULT 8
US-10-411-319-1
; Sequence 1, Application US/10411319
; Patent No. 6649381
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxymate, Method For Production Thereof And Microorganism
; FILE REFERENCE: 03500.015001.1
; CURRENT APPLICATION NUMBER: US/10/411.319
; PRIORITY FILING DATE: 2003-04-11
; PRIORITY APPLICATION NUMBER: US 09/748,205
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; PRIOR FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain
US-10-411-319-1

Query Match      72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

Qy 30 GGGCGCAGGCTTAACACATGCAAGTCGAGCGGAAACGATGATGCTTGCTATTAGCGCTC 89
Db 9 GGGCGCAGGCTTAACACATGCAAGTCGAGCGG--ATGACGGGAGCTTGCTCCGAAATTGA 66
Qy 90 GAGCNGCCGGAACGGGTGAGTAATTAATTAGGAATCTAAGTATGAGGGGATAGCTCGG 149
Db 67 G--CGGCGGACGGGTGAGTAATGCTAGGAATCTGCTGTATGAGGGGACAAACGTCTC 123
Qy 150 GAAACTCGAATTATACCGCATACGT-CTACGGGAGAAAGGAGGAGTGAATTAGACCTTG 208
Db 124 GAAAGGAGAGCTTATACCGCATACGTCTACGGGAGAAAGGAGGACCTTGCGGCTTG 183
Qy 209 CGCTATTAGTAGACCTTAAGTCGATTAAGTATGAGGGGTAAGGCTTACATGAGCG 268
Db 184 CGCTATCAATGAGCTTACGATGCGATTAAGTATGAGGATGATGCTTACATGAGCG 243
Qy 269 AGCATCTGTAAGCTGCTGTAAGAGATGATCAGCACAACGGGACCTGAGACACGGCCGGA 328
Db 244 AGCATCTGTAAGCTGCTGTAAGAGATGATCAGTCACTGAGAACTGAGACACGGTCCAGA 303
Qy 329 CT-CTACGGGAGGACAGTGGGGAATTTGACCAATGAGGGAACCTGATCCAGCCAT 387
Db 304 CTCTTACGGGAGGACAGTGGGGAATTTGACCAATGAGGGAACCTGATCCAGCCAT 363
Qy 388 GCGCGCTGTGTGAGAAAGGCTTTTGTGTGTAAGACCTTTAAAGCAGTAAAGAAAGACT 447
Db 364 GCGCGCTGTGTGAGAAAGGCTTTTGTGTGTAAGACCTTTAAAGTGGGAGAAAGGCAAT 423
Qy 448 TCGGTTAATACCGGGGACGATGACATTAGCTGCAATPAGCACCAGCTTACTCTGTGC 507
Db 424 TAACCTTAATACGTTAGTGTGTTTGAACCTTACCGACAAATPAGCACCAGCTTACTCTGTGC 483
Qy 508 CAGCAGCCGCGGTAATACAGAGGGGTCAAGCGTTAATCCGAATTAATCGGCGGTAAGCGA 567
Db 484 CAGCAGCCGCGGTAATACAGAGGGGTCAAGCGTTAATCGAATTAATCGGCGGTAAGCGC 543
Qy 568 GCGTAGTGGCTTGAATGATGATGATGAAATCCCGGGCTTAACTGCGAACTGCATCT 627
Db 544 GCGTAGTGGCTTGAATGATGATGAAAGCCCGGGGTCAACTGCGAACTGCATTC 603
Qy 628 GAAACTGTTAGGCTTAAGTATGAGTGAAGGGAAGTGAATTTCAAGGTGTACCGGTGAATG 687
Db 604 AAAAATCGAAGGCTTAAGTATGAGTGAAGGGTGTGAAATTTCTCGTGTACCGGTGAATG 663
Qy 688 CGTAGAGATCTGAAGGAATACGAGTGGCGAAGGCACTTCCGAGCATCAATCTGACACG 747
Db 664 CGTAGATATAGGAAGAACACAGTGGCGAAGGCACTTCCGAGCATCAATCTGACACG 723
Qy 748 AGGCTCGAAAAGCCTGGGTAGCAAAACAGATTAGATACCTGTGATGTCACGCGCTAAAG 807
Db 724 AGGTGCGAAAAGCCTGGGTAGCAAAACAGATTAGATACCTGTGATGTCACGCGCTAAAG 783
Qy 808 ATGTCTACTAGTGTGGGTCCCTTAGAGCATTTAGTACGCGAGCTAACCCGATTAAGTAGA 867
Db 784 ATGTCTACTAGTGTGGGTCCCTTAGAGCATTTAGTACGCGAGCTAACCCGATTAAGTAGA 843
Qy 868 CCGCCCTGGGGAAGTACGGCGGCAAGGTTAAATCTCAATGATTAAGAGGGGCGCCGACAA 927
Db 844 CCGCCCTGGGGAAGTACGGCGGCAAGGTTAAATCTCAATGATTAAGAGGGGCGCCGACAA 903
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Qy 928 GGGGTGAGCATGTGTTAATTGATGCAACGCGAAGAACTTACCTGTCTTGACATA 987
Db 904 GGGGTGAGCATGTGTTAATTGATGCAACGCGAAGAACTTACCTGTCTTGACATA 963
Qy 988 CACAGAACTTTAGAGATACGAGAGTCCCTTCGGGAATTGTGATACAGGTCTGCATGG 1047
Db 964 CAAATAACTTTCAAGATGATGATGGGTGCTTCGGGAACATTTGAGACAGGTCTGCATGG 1023
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Db 1024 CTGTGTCAGCTGCTGTGATGATGTTGGTTAAGTCCCGCAACGAGCGCAACCTTGT 1083
Qy 1108 CCTTAGTTACACGAC-TTCCGGGTGGAATCTTAAGATATGCGCAGTGAACAACTGAG 1166
Db 1084 CCTTAGTTACACGACGTAATAGTGGGACCTTAAGAGACCTGCCGCTGACAAACCGAG 1143
Qy 1167 GAAAGCGGGGACGAGCTCAATCATAGGCCCTTTACGACGAGGCTACACACGTGCTAC 1226
Db 1144 GAAAGTGGGATGAGTCAAGTCATATGCCCCCTTACCGGCTTGGGCTACACAGTGTAC 1203
Qy 1227 AATGGTAGGTAACAGGGGAGCTACACAGCGATGATGCGAATCTCAAAAAGCCTATG 1286
Db 1204 AATGGTCCGTACAGAGGCTTCCAGACCGCAGGTGAGCTTAATCCACAAACCGATG 1263
Qy 1287 TAGTCCAGATTGGAATCTGCAACTGACTCCATGAAGTAGAATGCTAATGCGCGA 1346
Db 1264 TAGTCCGATGCAAGTCTGCAACTGACTGCGTGAAGTGGATGCTAATGCGCGA 1323
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Db 1324 TCAGAAATGCGGGGTGAATAGTTCCTCGGCTTTGTACACACCGCCGTACACCATGGG 1383
Qy 1407 AGTTATGCAACAGAGGTTGTTAGCTTA-CTTAGTGAAGGCGATGACACAGGTGTGT 1465
Db 1384 AGTGGTTGCAACAGAGTGAATAGTCTTAACCTTCCGAGAGACGTTACACAGGTGTGT 1443
Qy 1466 CGATGACTGGGTGAAGTCTTAACAGGTAGCCGTAGGGGAACCTGCCGCTGATAC 1523
Db 1444 TCATGATCGGGGTGAAGTCTTAACAGGTAGCCGTAGGGGAACCTGCCGCTGATAC 1501

RESULT 9
US-10-105-305-1
; Sequence 1, Application US/10105305
; Patent No. 677153
; GENERAL INFORMATION:
; APPLICANT: CANON KABUSHIKI KAISHA
; TITLE OF INVENTION: POLYHYDROXYALKANOATE CONTAINING UNIT WITH THIENYL STRUCTURE IN TH
; TITLE OF INVENTION: CHAIN, PROCESS FOR ITS PRODUCTION, CHARGE CONTROL AGENT, TONER B
; TITLE OF INVENTION: TONER WHICH CONTAIN THIS POLYHYDROXYALKANOATE, AND IMAGE-FORMING
; TITLE OF INVENTION: IMAGE-FORMING APPARATUS WHICH MAKE USE OF THE TONER
; FILE REFERENCE: CPO16109
; CURRENT APPLICATION NUMBER: US/10/105,305
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: JP 2001-090026, JP 2001-133551
; PRIOR FILING DATE: 2001-3-27, 2001-4-27
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-10-105-305-1

Query Match      72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

Qy 30 GGGCGCAGGCTTAACACATGCAAGTCGAGCGGAAACGATGATGCTTGCTATTAGCGCTC 89
Db 9 GGGCGCAGGCTTAACACATGCAAGTCGAGCGG--ATGACGGGAGCTTGCTCCGAAATTGA 66
Qy 90 GAGCNGCCGGAACGGGTGAGTAATTAATTAGGAATCTAAGTATGAGGGGATAGCTCGG 149
```



Db	67	G---	CGCGCGACGGGCTAGTAATGCTTAAGAAATTCGCTTGTAAGTGGGGACAAACGCTTC	123
Oy	150	GAACCTGAAATTAATTAACCGCATACGT-CTACGGGAGAAACAGGGGNTCAATGACCTTG	208	
Db	124	GAAGGGACGCTTAATACCGCATACGCTCTACGGGAGAAAGAGGGGACCTTCGGGGCTTG	183	
Oy	209	CGCTATTAGATGACCTTAAGTCGATTAGCTAGATGCTGGGCTTAAGGCTTACCATGGCG	268	
Db	184	CGCTATCAGATGACCTTAGTCGGATTAGCTAGTGTGAGTAAATGGCTCACCAAGCGC	243	
Oy	269	ACGATCTGTACTGTCTGAGAGATGATCGACCAACGGGAACTGAGACACGGCCCGGA	328	
Db	244	ACGATCCGTAATCTGCTGAGAGAGATGCTCACTGAACTGAGACAGGCTCAGA	303	
Oy	329	CT-CTACGGGAGGACGACAGTGGGGAATTAATGCAATAGNGGGAACCTTGATCAGCCAT	387	
Db	304	CTCTTACGGGAGGACGACGATGGGGAATTAATGCAATAGGGGAAGCTTATCCAGCAT	363	
Oy	388	GCCGCGTGTGAAAGAAAGCCCTTTGGTTGTAAGCACTTTAGCAGTGAAGAACTCT	447	
Db	364	GCCGCGTGTGAAAGAAAGCTCTCGGATTTGAAGCACTTTAATGTTGGGAGAAAGGCAT	423	
Oy	448	TCGGTTATACCCGGGACGATGACATTAGCTGAGAAATTAAGCACCGGCTAATCTGTGC	507	
Db	424	TAACTTAATACGTTAGTGTGTTGACGTTTACGAGAAATTAAGCACCGGCTAATCTGTGC	483	
Oy	508	CAGCAGCCGCGGTAAATCAGAGGGTGCMAAGCGTTAATCGGAATTACTGGCGTTAAACGA	567	
Db	484	CHGACAGCCGCGGTAAATCAGAGGGTGCMAAGCGTTAATCGGAATTACTGGCGTTAAACGC	543	
Oy	568	GCGTAGTGGCTTGATTAAGATGATGAAATCCCGGGCTTAACTTGGGAATGCACTCT	627	
Db	544	GCGTAGTGGCTTGTTGTTAATGATGTAAGAACCCCGGGCTCAACTTGGGAATGCACTTC	603	
Oy	628	GAAACTGTAGGCTTAGAGTAGTAGAGAGGAAGTAAATTTCAAGTGTAGCGGTGAATG	687	
Db	604	AAACTGTCAAGCTAGATGATGTAAGAGGGTGTGGAAATTTCTGTAGACGGTGAATG	663	
Oy	688	CGTAGAGATCTGAAGGAATTAACGATGGCGAAGGAGCTTCTGGCATCATCTACACTG	747	
Db	664	CGTAGATATTAGMAGGAACACCACTGGCGAAAGGCAACCTTGAATCTGATCTGACACTG	723	
Oy	748	AGGCTCGAAAGCGTGGGTAGCAAAACGAGATTAGATCCCTGTAGTCCACGCGCTAAACG	807	
Db	724	AGGTGCGAAAGGTGGGGAGCAACAGATTAGATACCTCGTAGTCCACGCGCTAAACG	783	
Oy	808	ATGTTACTAGTCTGTGGGTCCCTTGAGAGCTTAGTAGCGCACTTAACGCAATTAATGAGA	867	
Db	784	ATGTCACACTAGCCGTTGGAGCGCTTGACCTCTTAGTGGCGGACGTTAACGCACTTAATGATGA	843	
Oy	868	CCGCGCTGGGGAGTACGGCGCAAGGTTAAACTCAATAGAAATTAACGGGGGCGCGCAAA	927	
Db	844	CCGCTTGGGGAGTACGGCGCAAGGTTAAACTCAATAGAAATTAACGGGGGCGCGCAAA	903	
Oy	928	GCGGTGAGACATGTGTTTAATTTCCATGCAACGCGAAGAACCTTAACCTGATCTTGAACATA	987	
Db	904	GCGGTGAGACATGTGTTTAATTTGAACCAACGCGAABAACCTTAACGAGGCTTGACATC	963	
Oy	988	CACAGAACTTGTAGAGATACGAGATGTCCTTGGGAAATTTGTATACAGTGTCTGCATCG	1047	
Db	964	CAATGAACCTTTCACAGAGATGATGTGTCCTTCCGGAAACATTTGAGACAGGTGCTGCATCG	1023	
Oy	1048	CTGTGTGAGCTCGTGTGCTGAGATGTTGGGTTAGTCCCGCAACGAGCGCAACCTTGT	1107	
Db	1024	CTGTGTGAGCTCGTGTGCTGAGATGTTGGGTTAGTCCCGTAACGAGCGCAACCTTGT	1083	
Oy	1108	CCTTAGTTACAGCAC-TTCGGGTGGAACTCTAAGATTAAGTACTGCCAGTGAACAACTGGAG	1166	
Db	1084	CCTTAGTTACAGCACGCTAATGTGTGGCACTCTAAGAGACCTGCCGCTGACAAACCGGAG	1143	
Oy	1167	GAAGCGGGAGACAGCTCAAGTCAATGAGCCCTTAACGACAGGGCTTACAACGTGTGAC	1226	
Db	1144	GAAGGTGGGAGAGAGTCAAGTCAATGAGCCCTTAACGAGCTGTGGCTTACAACGTGTGAC	1203	

Qy	1227	AATGTAGTACGACGAGCGCAGCTAACACAGCATGTGTATGCGAATCTCAAAAGCCATTTCG	1286
Db	1204	AATGGTCGGTACAGAGGGGTGCCAAGCCGCGAGGTGTGACTTAATCCACAACCAACGATTCG	1263
Qy	1287	TAGTCCAGATTGGAGTCTTGCACTCGATCTCCATGAAAGTAGGAATTCCTAGTAATTCGCGGA	1346
Db	1264	TAGTCCGATCGCACTGTGCAACTCGACTCGCTGAAAGTCGGAATTCCTAGTAATTCGCGGA	1323
Qy	1347	TCAGAATCCCGGGGTGAATAGCTTCCCCGGGSCCTTGACACACCGCCGTCACACATGGG	1406
Db	1324	TCAGAATCTCGGGTGAATAGCTTCCCCGGGSCCTTGACACACCGCCGTCACACATGGG	1383
Qy	1407	AGTTATATGACCACGAAGGTGTAGCTTAA-CTTAGTGAAGGCGCATCACCGGTGTGT	1465
Db	1384	AGTGGGTTCACACGAAGTAGTACTTAACCTTCGGAGAGACGGTTACACAGGTGTGAT	1443
Qy	1466	CGATTACTGGGGTGAAGTCTGTAAACAAGGTAGCCGTGAGGGAACCTTCGCGCTGATCAC	1523
Db	1444	TCATGACTGGGGGTGAAGTCTGTAAACAAGGTAGCCGTGAGGGAACCTTCGCGCTGATCAC	1501

RESULT 10  
US-10-266-787-5  
; Sequence 5, Application US/10266787  
; Patent No. 6808910  
GENERAL INFORMATION:  
; APPLICANT: Iano, Tetsuya  
; APPLICANT: Imamura, Takeaki  
; APPLICANT: Suda, Sakae  
; APPLICANT: Honma, Teiichiro  
TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme  
FILE REFERENCE: 03500, 015225: US/10/266, 787  
CURRENT FILING DATE: 2002-10-09  
PRIOR APPLICATION NUMBER: JP 2000-095004  
PRIOR FILING DATE: 2000-03-30  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Microsoft Word  
SEQ ID NO 5  
LENGTH: 1501  
TYPE: DNA  
ORGANISM: Pseudomonas jesseni 161 ; Bp-7376  
FEATURE:  
; FEATURE: cDNA to 16S rRNA  
US-10-266-787-5

Query Match	72.0%;	Score 1098.6;	DB 3;	Length 1501;
Best Local Similarity	85.9%;	Pred. No. 0;		
Matches 187;	Conservative 0;	Mismatches 202;	Indels 9;	Gaps 6;

Qy	30	GGCGGAGGCTTAACACATGACGAGCGGAAAGATGATGCTTGTATTAGGCGTC	89
Db	9	GGCGGAGGCTTAACACATGACGAGCGG--ATGACGCGGAGCTTGTCTGTAATTC	66
Qy	90	GAGCGCCGCGAGCGGTGAGTAATACTTAGGAATCTAAGTAGTGGGGGATAGCTGGG	149
Db	67	G---CGGCGGAGCGGTGAGTAATAAGCTTAGGAATCTGCTGTGTGTGGGGGACACGCTTC	123
Qy	150	GAAATCTGGAATTAATCCGCTATCGT-CTACGGGAGAAACAGGGGATCTATTAGACCTTG	208
Db	124	GAAAGGAGCTTAATCCGCTATCGTCTACGGGAGAAACAGGGGACCTTCGGGCTTG	183
Qy	209	CGCTATTAGATGAGCTTAAGTCGATTTAGCTAGATGGTGGGTAAAGGCTTACCATGGCG	268
Db	184	CGCTATCAGATGAGCTTAAGTCGATTTAGCTAGTGTGTGAGTAAATGGCTCACCAAGGCG	243
Qy	269	ACGATCTGTAGTGTCTGAGAGAGATGATCAGCCACCGGAGCTGAGACCGGCCGGA	328
Db	244	ACGATCTGTAGTGTCTGAGAGAGATGATCAGCTGAGAACTGAGACCGGCTCCAGA	303
Qy	329	CT-CTACGGGAGGCAAGTGGGGGATTTTGGCAATGAGGGAACCTGATTCAGCAT	387

Db 304 CTCCTACGGGAGCAGCAGTGGGAAATTGACAAATGGGCGAAGACCTGATCCAGCAT 363  
 QY 388 GCCGCGTGTGTAAGAGGCTTTTGTGTAAGCACTTAAAGAGTGAAGAGACTCT 447  
 Db 364 GCCGCGTGTGTAAGAGGCTTTGGAATGTAAGCACTTAAAGTGGAGGAGGCAAT 423  
 QY 448 TCGGTTAATACCGGGAGCAATGACATTAAGCTGACAAATAGCAACCGGCTAACTCTGTC 507  
 Db 424 TAACTTAATACGTTAGTGTGTTGACGTTACCGACAAATAGCAACCGGCTAACTCTGTC 483  
 QY 508 CAGCAGCCCGGGTAATACAGAGGCTGCAAGCTTAACTCGGAATCTGGGCTGTAAGCGCA 567  
 Db 484 CAGCAGCCCGGGTAATACAGAGGCTGCAAGCTTAACTCGGAATCTGGGCTGTAAGCGCC 543  
 QY 568 GCGTAGTGGCTTGAATGATGATGAAATCCCGGGCTTAACTCGGGAATCTGACATCT 627  
 Db 544 GCGTAGTGGCTTGAATGATGATGAAATCCCGGGCTTAACTCGGGAATCTGACATCT 603  
 QY 628 GAAACTGTTAGGCTAGATGATGATGAGGGAATGAAATTTCAAGTGTAGCGGTGAATG 687  
 Db 604 AAAACTGACAGCTAGATGATGATGAGGCTGATGAAATTTCTGTGTAGCGGTGAATG 663  
 QY 688 CCGTAGATCTGAGGAATACGATGCGGAGGCTTCTGCGCATCTAGACATG 747  
 Db 664 CCGTAGATCTGAGGAATACGATGCGGAGGCTTCTGCGCATCTAGACATG 723  
 QY 748 AGGCTGAAAGCGTGGTGAACAAAGATTAATGATCCCTGATGTCACCGCGTAAAG 807  
 Db 724 AGGCTGAAAGCGTGGGAGCAACAGATTAATGATCCCTGATGTCACCGCGTAAAG 783  
 QY 808 ATGTCTACTAGTGTGGTCCCTTGAGGACTTATGATGACGATTAACGATTAAGTGA 867  
 Db 784 ATGTCTACTAGTGTGGGAGCTTATGATGATGATGATGATGATGATGATGATGATGAT 843  
 QY 868 CCGGCTGGGAGATACGCGCGCAAGTTAAATCTCAATGATTAAGCGGCGCCGCAAA 927  
 Db 844 CCGGCTGGGAGATACGCGCGCAAGTTAAATCTCAATGATTAAGCGGCGCCGCAAA 903  
 QY 928 GCGGTGAGGATGTGTTAATTCGATGACGCGGAAGAACTTACTGCTGTGACAA 987  
 Db 904 GCGGTGAGGATGTGTTAATTCGATGACGCGGAAGAACTTACTGCTGTGACAA 963  
 QY 988 CACAGATCTTGTAGATACGAGATGCTTGGGAAATTTGTGATACAGGTGCTGATG 1047  
 Db 964 CAAATGAACTTTCCAGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 1023  
 QY 1048 CTGTCTCAGCTGTGTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1107  
 Db 1024 CTGTCTCAGCTGTGTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1083  
 QY 1108 CCTTATTAACGAGCAG-CTCGGGTGGGAACTTAAGGATACGCGATGACAACTGGAG 1166  
 Db 1084 CCTTATTAACGAGCAGTAAATGATGATGATGATGATGATGATGATGATGATGATGAT 1143  
 QY 1167 GAAAGCGGGAGCAGCTCAAGTCAATGATGATGATGATGATGATGATGATGATGATGAT 1226  
 Db 1144 GAAAGCGGGAGTGAAGTCAAGTCAATGATGATGATGATGATGATGATGATGATGATGAT 1203  
 QY 1227 AATGTAGTACAGAGGCACTCAACAGGATGATGATGATGATGATGATGATGATGATGATGAT 1286  
 Db 1204 AATGTAGTACAGAGGCTTGGCCAAAGCAGGATGATGATGATGATGATGATGATGATGATGATGAT 1263  
 QY 1287 TGTGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1346  
 Db 1264 TGTGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1323  
 QY 1347 TCAGAAATGCGCGGTGATTAATGTTCCCGGCTTGTACACCGCGCTCAACCATGAG 1406  
 Db 1324 TCAGAAATGCGCGGTGATTAATGTTCCCGGCTTGTACACCGCGCTCAACCATGAG 1383  
 QY 1407 AGTTGATTCACCAAGATGTTAGCTTAA-CTTAATGAGGCGATCAACCGGTGTGT 1465  
 Db 1384 AGTTGATTCACCAAGATGTTAGCTTAACTTCGAGGAGGAGCGTTTACCAACCGGTGTGT 1443

QY 1466 CGATGACTGGGGTGAAGTGTGTAACAAAGTACCGGTAGGGGAACCTGCGGCTGATCAC 1523  
 Db 1444 TCATATCTGGGGTGAAGTGTGTAACAAAGTACCGGTAGGGGAACCTGCGGCTGATCAC 1501

RESULT 11  
 US-09-791-610-1  
 ; Sequence 1, Application US/09791610  
 ; Patent No. 6861550  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Canon Inc.  
 ; TITLE OF INVENTION: Polihydroxyalkanoate containing 3-hydroxybenzoylalkanoic acid as  
 ; FILE REFERENCE: 4396021  
 ; CURRENT APPLICATION NUMBER: US/09/791,610  
 ; NUMBER OF SEQ ID NOS: 1  
 ; SEQ ID NO 1  
 ; LENGTH: 1501  
 ; TYPE: DNA  
 ; ORGANISM: Pseudomonas jesseni 161 strain.  
 US-09-791-610-1

Query Match 72.0%; Score 1098.6; DB 3; Length 1501;  
 Best Local Similarity 85.9%; Pred. No. 0;  
 Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

QY 30 GCGGCGAGCTTAAACATGCAATGCAAGCGGAACGATGATGCTTGTATTAAGCGTC 89  
 Db 9 GCGGCGAGGCTTAAACATGCAATGCAAGCGGCGG-ATGACGGAAGCTTGTCTGTAATTA 66  
 QY 90 GAGCGCGGAGCGGGTGAATTAATTAAGAACTTAACCTAGTAAGTGGGGATAGCTCGGG 149  
 Db 67 G--CGCGAGCGGGTGAATTAATTAAGAACTTGTCTGTAAGTGGGGATAGCTCTC 123  
 QY 150 GAAACTGAAATTAATTAACGATACGT-CTACGGAAGAAAGCAGGGAGTCAATTAACCTTG 208  
 Db 124 GAAAGGAGCGCTAATTAACGATACGTCTTACGGAAGAAAGCAGGGAGCTTGGGCTTG 183  
 QY 209 GCGTATTAAGTACGCTTAATGCTGATTAAGTATGATGATGATGATGATGATGATGATGATGAT 268  
 Db 184 GCGTATTAAGTACGCTTATGCTGATTAAGTATGATGATGATGATGATGATGATGATGATGATGAT 243  
 QY 269 ACGATCTGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 328  
 Db 244 ACGATCTGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 303  
 QY 329 CT-CTACGGAAGCAGAGTGGGGAATTAATGACATGAGGGAACCTGATCCAGCAT 387  
 Db 304 CTCCTAACGGAAGCAGAGTGGGGAATTAATGACATGAGGGAACCTGATCCAGCAT 363  
 QY 388 GCGGCTGTGTGAAGAGGCTTTGTTGTTGAAGCACTTAAAGCAAGTGAAGAGACTCT 447  
 Db 364 GCGGCTGTGTGAAGAGGCTTTGTTGTTGAAGCACTTAAAGCAAGTGAAGAGGCAAT 423  
 QY 448 TCGGTTAATACCGGGAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 507  
 Db 424 TAACTTAATACCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 483  
 QY 508 CAGCAGCCCGGTAATTAAGAGGCTGCAAGCTTAACTGAGGCTGTAAGCGCA 567  
 Db 484 CAGCAGCCCGGTAATTAAGAGGCTGCAAGCTTAACTGAGGCTGTAAGCGCA 543  
 QY 568 GCGTAGTGGCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 627  
 Db 544 GCGTAGTGGCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 603  
 QY 628 GAAATCTTAAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 687  
 Db 604 AAAACTGCAAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 663  
 QY 688 CCGTAGATCTGAAAGAAATACGATGCGAAGGAGCTTCTGCGCATCACTAGACATG 747

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DB      664  CGTAGATATAGGAAGAACACCGAGTGGCCAGAGCCACCTGTAGTATCTGACACTG 723
      748  AGGCTCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCAAGCCGTAACG 807
      724  AGGTGGAAAGCGTGGGAGCAAAACAGATTAGATACCTGTAGTCCAAGCCGTAACG 783
      808  ATGTCTACTAGTGTGGTCCCTTGAAGACTTATAGTACGACGACTAAACCAATTAAGTA 867
      784  ATGTCAACTAGCGGTGGAGCGCTTGAAGCTTATAGTGGCGACGACTAACCATTAAGTTGA 843
      868  CCGCCCTGGGAGATACGCGCCGCAAGTTAAAACCAATGATTTGACGGGGGCCGACAA 927
      844  CGCCCTGGGAGATACGCGCCGCAAGTTAAAACCAATGATTTGACGGGGGCCGACAA 903
      928  GCGGTGAGAGATGTGGTTTAAATTCAGATGCAACGCGAAGAACCTTACCTGTCTTGA 987
      904  GCGGTGAGAGATGTGGTTTAAATTCAGATGCAACGCGAAGAACCTTACCAAGCCTTGA 963
      988  CACAGAACTTTGATGAGATACGAGATGCTCTTGGGAAATTTGTATACAGGTGCTGCATG 1047
      964  CAATGAACCTTTCAGAGATGATGTGGTCCCTCGGGAACATTTGACAGGTGCTGCATG 1023
      1048  CTGTGCTGACGCTGTGTCGATGATGTGGTTAAAGTCCCGCAACGAGCGCAACCTGT 1107
      1024  CTGTGCTGACGCTGTGTCGATGATGTGGTTAAAGTCCCGTAAACGAGCCCAACCTGT 1083
      1108  CCTTATGATACAGACAC-TTCCGGGTGGGAACTTAAAGATATCTCCAGTGAACAACTGAG 1166
      1084  CCTTATGATACAGACACGATATGATGTGGCACTTAAAGAGACTGCCGGTGAACAAACGAG 1143
      1167  GAAAGCGGGGACAGCTCAAGTATCATGTGGCCCTTACAGACAGGGCTACACAGTGTAC 1226
      1144  GAAAGTGGGATACGTCAGATCATGTGCCCCCTTACGCGCTGGGTACACAGTGTAC 1203
      1227  AATGTAGATACAGAGGGGACGTCACAGGATGTATGCGAATCTCAAAAAGCCTATG 1286
      1204  AATGTAGATACAGAGGGGATGCGAAGCGCGAGGTGAGCTTAATCCCAAAAACCGATG 1263
      1287  TAGTCCAGATTGAGATCTGCAACTGCACTCATGAATAGAAATCGTAAATTCGCGGA 1346
      1264  TAGTCCGATCGCAGTCTGCACTGCACTGCGTGAATCGTAAATTCGTTAAATTCGGA 1323
      1347  TCAGAAATGCGCGGTGAATCGTTCCCGGCTTTGACACACCGCCCTGACACATGGG 1406
      1324  TCAGAAATGCGCGGTGAATCGTTCCCGGCTTTGACACACCGCCCTGACACATGGG 1383
      1407  AGTTGATGACACAGAAATGTAGCTTA-CTTATGAGAGGGGATCACACGCTGTGCT 1465
      1384  AGTGGTTGACACAGAAATGTAGCTTA-CTTATGAGAGGGGATCACACGCTGTGCT 1443
      1466  CGATGACTGGGGTGAAGTCTTAAACAAGTACCGTGAAGGAACTTCCGCGCTGTATC 1523
      1444  TCATGACTGGGGTGAAGTCTTAAACAAGTACCGTGAAGGAACTTCCGCGCTGTATC 1501

RESULT 12
US-10-252-518-5
; Sequence 5, Application US/10252518
; Patient No. 6875596
; GENERAL INFORMATION:
; APPLICANT: Yano, Tetsuya
; APPLICANT: Imamura, Takeshi
; APPLICANT: Suda, Sakae
; APPLICANT: Honma, Tetsuou
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500.015252.2
; CURRENT APPLICATION NUMBER: US/10/252.518
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: JP 2000-095004
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
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; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE:
; FEATURE: cDNA to 16S rRNA
US-10-252-518-5

Query Match      72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

      30  GCGGAGAGCTTAAACATGATGAGAGGAAACGATGATAGCTTGTATTAAGCCGTC 89
      9  GCGGAGAGCTTAAACATGATGAGAGGAAACGATGATAGCTTGTATTAAGCCGTC 66
      90  GAGCAGCCGAGAGCGGTGATGATTAATCTTAAAGATCTTAAAGTGGGATAGCTGCG 149
      67  G---GCGGAGAGCGGTGATGATTAATCTTAAAGATCTTAAAGTGGGATAGCTGCTC 123
      150  GAAACTCGAATTAATCCGATACGT-CTACGGGAGAAAGCAGGGGATCATTAAGACTTG 208
      124  GAAAGGAGAGCTTAATACCGCATACGTCTTACGGGAGAAAGCAGGGGACCTTGGGCTTG 183
      209  CGCTATTAGATGAGCTTAATGCGATTAAGTATGATGATGATGATGATGATGATGATGAT 268
      184  CGCTATTAGATGAGCTTAATGCGATTAAGTATGATGATGATGATGATGATGATGATGAT 243
      269  AGCATCTGATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 328
      244  AGCATCTGATGATGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 303
      329  CT-CTACGGGAGAGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 387
      304  CTCTCTACGGGAGAGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 363
      388  GCGGAGAGCTTAAAGAGAGCGCTTGTGATTAAGAGCATTTAAAGCAGTGAAGAGACTCT 447
      364  GCGGAGAGCTTAAAGAGAGCGCTTGTGATTAAGAGCATTTAAAGCAGTGAAGAGACTCT 423
      448  TCAGTAAATACCGCGGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 507
      424  TAACCTAATACGTTAGTGTGTTTGAAGTAAACGATTAACGATTAAGAGAGCGGCTTAAT 483
      508  CAGCAGCCCGGATTAATACAGAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 567
      484  CAGCAGCCCGGATTAATACAGAGGATGATGATGATGATGATGATGATGATGATGATGATGAT 543
      568  GCGTATGATGATGATTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 627
      544  GCGTATGATGATGATTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 603
      628  GAAACTGTTAGGCTTAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 687
      604  AAAACTGACAGAGTAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 663
      688  CGTAGAGATCTGAAGATACCGATGCGAGAGCGAGCTTCCTGCAATCATCTGACACTG 747
      664  CGTAGATATAGGAAGAACACCGAGTGGCCAGAGCCACCTGTAGTATCTGACACTG 723
      748  AGGCTCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCAAGCCGTAACG 807
      724  AGGTGGAAAGCGTGGGAGCAAAACAGATTAGATACCTGTAGTCCAAGCCGTAACG 783
      808  ATGTCTACTAGTGTGGTCCCTTGAAGACTTATAGTACGACGACTAAACCAATTAAGTA 867
      784  ATGTCAACTAGCGGTGGAGCGCTTGAAGCTTATAGTGGCGACGACTAACCATTAAGTTGA 843
      868  CCGCCCTGGGAGATACGCGCCGCAAGTTAAAACCAATGATTTGACGGGGGCCGACAA 927
      844  CGCCCTGGGAGATACGCGCCGCAAGTTAAAACCAATGATTTGACGGGGGCCGACAA 903
      928  GCGGTGAGAGATGTGGTTTAAATTCAGATGCAACGCGAAGAACCTTACCTGTCTTGA 987
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DB 904 GCGGTGACATGCTGTTAAATTCGAAGAACCGGAAGAACCTTACAGGCCCTTGACATC 963  
988 CACAGAACTTTAGAGATACAGAGATGCTTGGGAAATTGATCAGGTGCTGATG 1047  
DB 964 CAAATGAATCTTCCAGAGATGATGAGTGGTCTTGGGAACTTGAAGACAGGTGCTGATG 1023  
1048 CTGTCTCAGCTTCTGTCTGATGATGTTGGTTAACTCCCGCAACAGGCAACCTTGT 1107  
DB 1024 CTGTCTCAGCTTCTGTCTGATGATGTTGGTTAACTCCCGTAACAGGCAACCTTGT 1083  
QY 1108 CCTTAATTACACGAC- TTCCGGTGGAACTCTAAGATATCTCCAGTGAACAACTGAG 1166  
DB 1084 CCTTAATTACACGACGATATGTTGGGCACTCTTAAGAGAACTGCTCCGTGACAAACCGAG 1143  
QY 1167 GAAGGGGGGAGACGATCAAGTATGAGCTTACGACCAAGGGGTACACAGCTGCTAC 1226  
DB 1144 GAAGGTGGGAGATGACCTCAAGTATGATGAGCTTACGAGCTGGGCTACACAGTGTAC 1203  
QY 1227 AATGTAGGTACAGAGGAGCTACACAGGATGATGAGTATCTCAAAAAGCTTATG 1286  
DB 1204 AATGTAGGTACAGAGGAGTGGCCAGGCGGAGGTGAGTATCCCAAAAAGCTTATG 1263  
QY 1287 TAGTCCAGATTGAGATCTGCACTGCACTCATGAAGTGAAGAACTGCTTATGCTG 1346  
DB 1264 TAGTCCAGATTGAGATCTGCACTGCACTGCACTGGAAGTGGAACTGCTTATGCTG 1323  
QY 1347 TCAGATAGCGGGGATGATGCTTCCGGGCTTGAACACCGGCGTACACCACTGAG 1406  
DB 1324 TCAGATAGCTGCGGATGATGCTTCCGGGCTTGAACACCGGCGTACACCACTGAG 1383  
QY 1407 AGTTGATTCACACAGAGTGTGTTAGCTTA-CTTATGAGAGGAGTACCAACGCTGATG 1465  
DB 1384 AGTGGGTTCACACAGAGTGTGTTAGCTTA-CTTATGAGAGGAGTACCAACGCTGATG 1443  
QY 1466 CGATGCTGCGGTGAAGTGTGAACAGTGAAGCTTGGGGAACCTGCGCTGATGATG 1523  
DB 1444 TCATGCTGCGGTGAAGTGTGAACAGTGAAGCTTGGGGAACCTGCGCTGATGATG 1501

RESULT 13  
US-08-114-695A-1  
Sequence 1, Application US/08114695A  
Patent No. 5508193  
GENERAL INFORMATION:  
APPLICANT: Mandelbaum, Raphael T.  
APPLICANT: Mockett, Lawrence P.  
TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND  
TITLE OF INVENTION: WATER  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: SCHWEGMAN, LUNDBERG & WOESSNER, P.A.  
STREET: 3500 IDS CENTER  
CITY: MINNEAPOLIS  
STATE: MN  
COUNTRY: USA  
ZIP: 55402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/114,695A  
FILING DATE: 31-AUG-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MUELLING, ANN M.  
REGISTRATION NUMBER: 33,977  
REFERENCE/DOCKET NUMBER: 600,268US1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 612-339-0331  
TELEFAX: 612-339-3061

/ INFORMATION FOR SEQ ID NO: 1:  
/ SEQUENCE CHARACTERISTICS:  
/ LENGTH: 1542 base pairs  
/ TYPE: nucleic acid  
/ STRANDEDNESS: single  
/ TOPOLOGY: linear  
/ MOLECULE TYPE: rRNA  
/ ORIGINAL SOURCE:  
/ ORGANISM: Escherichia coli  
US-08-114-695A-1

Query Match 70.5%; Score 1076; DB 2; Length 1542;  
Best Local Similarity 67.2%; Pred. No. 0;  
Matches 1008; Conservative 246; Mismatches 243; Indels 4; Gaps 3;

QY 30 GCGGCGAGGCTTAACACATGCAAGTCGAGCGGGAACGATGA--TTGCTTGTCTATTAGGCG 87  
DB 38 GCGGCGAGGCTTAACACATGCAAGTCGAGCGGGAACGATGA--TTGCTTGTCTATTAGGCG 97  
QY 88 TCGACGCGCGGAGCGGAGTGAATTAATCTTAAAGATCTAAGTGTGAGGAGTGAAGCTG 147  
DB 98 GACGAGGCGGAGCGGAGTGAATTAATCTTAAAGATCTAAGTGTGAGGAGTGAAGCTG 157  
QY 148 GGGAAATCTGAATTAATTAATCCGATACGCTTACGCGGAGAAAGCAGGAGTCAATTAGACTT 207  
DB 158 UGGAAACGGUAGCUAAUACCGCAUAAACGCGACCAAAAGAGGGAGACCTUCGCGCTC 217  
QY 208 GCGGCTATTAGATGACCTTAAGTCTTAAAGTGTGAGGAGTGAAGGCTTAAGGCTTAAGCTG 267  
DB 218 UGGCAUUGGAGUUGCCAGAGGAGUUAUGUAGAGGAGGAGUUAUGGAGGAGUUAUGGAGG 277  
QY 268 GACGATCTGTAGCTGTGTGAGAGGATGATACGACACCGGAGCTGAGACAGCGCCG 327  
DB 278 GACGATCTGTAGCTGTGTGAGAGGATGATACGACACCGGAGCTGAGACAGCGCCG 337  
QY 328 ACT-CTACGCGAGCGAGCAGATGAGGAGTATTTGACATATGAGGAAACCTTATCCAGCCA 386  
DB 338 ACUCUACGCGGAGCGAGCAGUUGGAGUUAUUGCAUAGGCGCAAGCTGAGGAGCCA 397  
QY 387 TGCAGGCTGTGAGAGAGGCGCTTTGTGTTAAAGCACTTAACGATGAAGAGACATC 446  
DB 398 UGCGCGGAGUUAAGAGAGGCGCTTGTGTTAAAGCACTTAACGATGAAGAGACATC 457  
QY 447 TTCGTTAATACCCCGGAGCAGTATGATGCTGAGATTAAGCAACCGGCTTAATCTG 506  
DB 458 UAAUUAUUAUACUUGGCUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 517  
QY 507 CCAGACGCGCGGCTTAATACAGAGGTCAGGCTTAATTCGAAATTAATCTGAGGCTTAAGC 566  
DB 518 CCAGACGCGCGGCTTAATACAGAGGTCAGGCTTAATTCGAAATTAATCTGAGGCTTAAGC 577  
QY 567 AGCGTAGGCTTATTAAGTATGATGAGTGAATCCCGGAGCTTAACCTGAGGAGCTGATC 626  
DB 578 CAGCGAGGCGGAGUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 637  
QY 627 TGAACCTGTAGGCTTATTAAGTATGATGAGTGAATCCCGGAGCTTAACCTGAGGAGCTG 686  
DB 638 UGAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 697  
QY 687 GCGTAGAATCTGAAGAAATACAGAGGTCAGGCTTAATTCGAAATTAATCTGAGGCTTAAGC 746  
DB 698 GCGTAGAATCTGAAGAAATACAGAGGTCAGGCTTAATTCGAAATTAATCTGAGGCTTAAGC 757  
QY 747 GAGGCTGGAAGCGGAGTGAAGTGAATTAAGTGAATCCCGGAGCTTAACCTGAGGAGCTG 806  
DB 758 CAGGCGGAGGAGGAGGAGTGAAGTGAATTAAGTGAATCCCGGAGCTTAACCTGAGGAGCTG 817  
QY 807 GATGTCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 866  
DB 818 GATGTCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 877  
QY 867 ACCGCTGAGGAGTACGCGCGGAGGTTAAATCTGAAATGAATGAATGAATGAATGAATGAATGA 926



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Db 698 CGTAGATATAGGAAGAAATCATGAGCGAAGCGAACCCCTTGACCGATCTAGACGCTG 757
Qy 748 AGGCTCGAAAAGCTGGGTAGCAAAACAGATTAGATACCTGTGATGCCAGCCGTAACG 807
Db 758 AGGTGGAAAAGCCTGGGAGCAAAACAGATTAGATACCTGTGATGCCAGCCGTAACG 817
Qy 808 ATGTCTACTAGTCTGTGGGTCCCTTGAGAGACTTAGAGCGACCTTAACGCAATAGTAGA 867
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Qy 868 CCGCCCTGGGAGAGAACCGCGCAAGTTAAACCTCAATATTAAGAGGGGGCCCCGACAA 927
Db 877 CCGCCCTGGGAGAGAACCGCGCAAGTTAAACCTCAATATTAAGAGGGGGCCCCGACAA 936
Qy 928 GCGGTGAGAGATGTGTTTAATTCATGCAACGCAAGAACTTACTGTCTTGACATA 987
Db 937 GCGGTGAGAGATGTGTTTAATTCATGCAACGCAAGAACTTACTGTCTTGACATC 996
Qy 988 CACAGAACTCTTAGAGATACGAGAGTCCCTTGGGAAATTGTGATACAGGTGCTGATGG 1047
Db 997 CAGAGAACTTTCAGAGATGAATTGGTGCCTTGGGAACTTGAGACAGGTGCTGATGG 1056
Qy 1048 CTGTCTCTAGCTGTGCTGAGATAGTTGGGTTAAGTCCCGCAACGAGCGCAACCTTGT 1107
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Qy 1108 CCTTAATTAACAGACACTTCGGGTGGGAACTCTAAGATACTGCGACATGACAACTGGAG 1167
Db 1117 CCTTAATTAACAGACACTTCGGGTGGGAACTCTAAGATACTGCGACATGACAACTGGAG 1176
Qy 1168 AAGGCGGGGACGAGCTCAAGTCAATGAGCTTACGACCAAGGCTTACACAGCTGTACA 1227
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Qy 1288 AGTCAGATTGAGTCTGCAACTCGACTCCATAGATAGAGAACTCGTAGTAATCGCGAT 1347
Db 1297 AGTCAGATTGAGTCTGCAACTCGACTCCATAGATAGAGAACTCGTAGTAATCGCGAT 1356
Qy 1348 CAGAAATGCGCGGTGAATAGTTCCCGGCTTTGTAACAACCGCCGTCAACACATGGGA 1407
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Db 1477 AATGA 1481

RESULT 15
US-09-726-774-3
: Sequence 3. Application us/09726774
: Patent No. 6677153
: GENERAL INFORMATION:
: APPLICANT: Iversen, Patrick L.
: TITLE OF INVENTION: Antisense Antibacterial Method and
: FILE REFERENCE: 0450-0032.30
: CURRENT APPLICATION NUMBER: US/09/726,774
: PRIOR FILING DATE: 2000-11-29
: PRIOR APPLICATION NUMBER: US 60/168,150
: NUMBER OF SEQ ID NOS: 139
: SOFTWARE: FaastSeq for Windows Version 4.0
: SEQ ID NO 3
: LENGTH: 1467
: TYPE: DNA
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: ORGANISM: Pseudomonas aeruginosa
US-09-726-774-3
Query Match 70.2%; Score 1070.8; DB 3; Length 1467;
Best Local Similarity 85.9%; Pred. No. 0;
Matches 1233; Conservative 0; Mismatches 199; Indels 4; Gaps 4;

Qy 95 GCCGACGCGGTGAGTAATTAATTAAGAAATCTAATAGTAGGGGAGTAGCTCGGGAAAC 154
Db 29 GCGGACGCGGTGAGTAATTAATTAAGAAATCTAATAGTAGGGGAGTAGCTCGGGAAAC 88
Qy 155 TCGAATTAATACCGATACGT-CTACGGGAGAAACAGAGGATCAATTAGACTTTGGCTTA 213
Db 89 GAACGCTAATACCGATACGTCTACGGGAGAAACAGAGGACTTTGGGCTTGGCTTA 148
Qy 214 TTAGATGAGCCTAATGCGATAGTAGTGGTGGGTTAAAGGCTTACATGAGCGACAT 273
Db 149 TCAGATGAGCCTAATGCGATAGTAGTGGTGGGTTAAAGGCTTACATGAGCGACAT 208
Qy 274 CTGTAGCTGTCTGAGAGATGATCAGCCACACCGGACCTGAGACACGCGCCGACT-CT 332
Db 209 CCGTAACCTGTCTGAGAGATGATCAGCCACACCTGAGACACGCGCCGACTCCT 268
Qy 333 ACGGAGGACAGCAGTGGGGAATTTGACATGAGGGAACCTTGATCCAGCCATGCGGC 392
Db 269 ACGGAGGACAGCAGTGGGGAATTTGACATGAGGGAACCTTGATCCAGCCATGCGGC 328
Qy 393 GTGTGAGAAAGGCTTTTGGTGTAAAGCACTTAAGCAGTGAAGAACTTTCGGT 452
Db 329 GTGTGAGAAAGGCTTTTGGTGTAAAGCACTTAAGCAGTGAAGAACTTTCGGT 388
Qy 453 TAAATCCCGGGACGATGACATTAAGCTCAGATTAAGCAACCGGCTTACTGTGTCAGCA 512
Db 389 TAAATCGTAGTGTGTTGACGTTTACGACAGATTAAGCAACCGGCTTACTGTGTCAGCA 448
Qy 513 GCCCGGCTAATACAGAGGTGCAACGTTAATCGGAATTAATCGGCGTTAAAGCGAGCTA 572
Db 449 GCCCGGCTAATACAGAGGTGCAACGTTAATCGGAATTAATCGGCGTTAAAGCGAGCTA 508
Qy 573 GGTGCTGATTAAGTCAGATGTAATCCCGGGCTTAACTGGGAACTGACCTGAAAC 632
Db 509 GGTGCTGATTAAGTCAGATGTAATCCCGGGCTTAACTGGGAACTGACCTGAAAC 568
Qy 633 TGTTAGGCTAGAGTGTGAGAGGAGTAAGTAATTCAGTGTGTAACGGTGAATCGTAG 692
Db 569 TGGCAAGCTAGAGTATGCGACAGAGGTGTGGAATTTCTGTGTACCGGTGAATTCGTAG 628
Qy 693 AGATCTGAAGAAATACCGATGCGAAGCGAGCTTCTGCAATCATGACCTGAGGCT 752
Db 629 ATATAGGAAGAAACCACTGCGCAAGGCGAACCACTGCGCTAATATGACACTGAGGTG 688
Qy 753 CGAAAGCGTGGGTAGCAAAACGAGATTAGATCCCGTGTAGTCAAGCGGTAAAGATGTC 812
Db 689 CGAAAGCGTGGGTAGCAAAACGAGATTAGATCCCGTGTAGTCAAGCGGTAAAGATGTC 748
Qy 813 TACTAGCTGTGGGTCCCTTGAGACTTAGTGACCACTAAGCAATTAAGTAGACCGGC 872
Db 749 GACTAGCGGTGGGTAGTCTTGAGATCTTAGTGCGCACTAAGCAATTAAGTAGACCGGC 808
Qy 873 TGGGAGTAGACGCGCGCAAGTTAAACTCAATGATGACGCGGGCCCCGCAAGCGGT 932
Db 809 TGGGAGTAGACGCGCGCTAGTTAAACTCAATGATGACGCGGGCCCCGCAAGCGGT 868
Qy 933 GGAGCATGTGTTTAATTCATGCAACCGCAAGAACTTACTGTCTTGACATACAG 992
Db 869 GGAGCATGTGTTTAATTCATGCAACCGCAAGAACTTACTGTCTTGACATACAG 928
Qy 993 AATCTTGATAGATACAGAGTGTCTTGGGAAATGTGATACAGGTGTGATGCTGTGC 1052
Db 929 AACTTTCAGAGATGAGATTTGTGCTTGGGAACTCTGACACAGGTGTGATGCTGTGC 988
Qy 1053 GTACGCTGTGTGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCTTGTCTTA 1112
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Db 989 GTCAGCTCGTGTGTGATGTTGGGTTAAGTCCCGTAAGAGCGAACCTTGTCTTA 1048  
QY 1113 GTTACCAAGCAC-TTCGGGTGGGAACTTAAGGATACTGCCAGTGAACAACTGAGAGAGG 1171  
Db 1049 GTTACCAAGCACGTTAAGGTGGGCACTTAAGGAGACTGCCGATGACAAACCGAGAGAGG 1108  
QY 1172 CGGGGACGACGTCAGTCAATCATATGAGCCCTTAACGACCGAGCTACACACGTTGCTACAAATGG 1231  
Db 1109 TGGGGATGACGTCAAGTCAATCATATGAGCCCTTAACGAGCTTACACACGTTGCTACAAATGG 1168  
QY 1232 TAGGTACAGAGGGCAGCTACACAGCGATGTGATCGAATCTCAAAAAGCCTATCGTAGTC 1291  
Db 1169 TCGGTACAAAGGGTTGCGCAAGCCGAGGTGAGCTAATCCATAAACCGATCGTAGTC 1228  
QY 1292 CAGATTGAGACTTGCAACTCGACTCCATGAAGTAGAATGCTAGTAATGCGGATCAGA 1351  
Db 1229 CGGATCGCAGTCTGCAACTCGACTGCGTGAAGTCGGAATCGTAGTAATCGTGAATCAGA 1288  
QY 1352 ATGCCCGGGGTAATGATTCCGGGGCTTGTACACACCGCCGTCACACCATGGGAGTTG 1411  
Db 1289 ATGTCAAGGTGAATACGTTCCGGGGCTTGTACACACCGCCGTCACACCATGGGAGTTG 1348  
QY 1412 ATTGCACAGAAAGTGTAGCTTA-CTTAGTAGGGCGATCACACGATGTGTCGATG 1470  
Db 1349 GTTGCTCCAGAAAGTAGTACTTAACCTTGGGGGGGACGGTTACACGGAGGTATTCATG 1408  
QY 1471 ACTGGGGTGAAGTCGTAAACAAGTAGCCGTAGGGGAACTGCGGCTGGATCACCTC 1526  
Db 1409 ACTGGGGTGAAGTCGTAAACAAGTAGCCGTAGGGGAACTGCGGCTGGATCACCTC 1464

Search completed: December 2, 2005, 23:43:50  
Job time : 350.745 sec

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using bw model

Run on: December 2, 2005, 23:29:37 : Search time 20.166 Seconds  
(without alignments)  
7795.112 Million cell updates/sec

Title: US-09-979-558a-2

Perfect score: 19  
Sequence: 1 taatgtcatcgtcccgag 19

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 9793542 seqs, 413469005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database:

Published Applications NA Main:\*

- 1: /cgn2\_6/prodata/1/pubpna/us07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/prodata/1/pubpna/us08\_PUBCOMB.seq:\*
- 3: /cgn2\_6/prodata/1/pubpna/us09a\_PUBCOMB.seq:\*
- 4: /cgn2\_6/prodata/1/pubpna/us09b\_PUBCOMB.seq:\*
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- 10: /cgn2\_6/prodata/1/pubpna/us11\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16.4	86.3	1329	US-10-169-395-18	Sequence 18, Appl
2	16.4	86.3	1400	US-10-956-157-7824	Sequence 7824, Ap
3	16.4	86.3	1400	US-10-956-157-9435	Sequence 9435, Ap
4	16.4	86.3	1882	US-09-925-298-301	Sequence 301, App
5	16.4	86.3	1882	US-10-102-806-301	Sequence 301, App
6	16.4	86.3	1926	US-09-764-853-238	Sequence 238, App
7	16.4	86.3	1987	US-09-818-143-20	Sequence 20, Appl
8	16.4	86.3	1989	US-09-946-374-76	Sequence 76, Appl
9	16.4	86.3	1989	US-10-006-856A-76	Sequence 76, Appl
10	16.4	86.3	1989	US-10-006-818A-76	Sequence 76, Appl
11	16.4	86.3	1989	US-10-006-485A-76	Sequence 76, Appl
12	16.4	86.3	1989	US-10-013-907A-76	Sequence 76, Appl
13	16.4	86.3	1989	US-10-015-499A-76	Sequence 76, Appl
14	16.4	86.3	1989	US-10-015-393A-76	Sequence 76, Appl
15	16.4	86.3	1989	US-10-015-869A-76	Sequence 76, Appl
16	16.4	86.3	1989	US-10-012-121A-76	Sequence 76, Appl
17	16.4	86.3	1989	US-10-006-116A-76	Sequence 76, Appl
18	16.4	86.3	1989	US-10-006-117A-76	Sequence 76, Appl
19	16.4	86.3	1989	US-10-017-527A-76	Sequence 76, Appl
20	16.4	86.3	1989	US-10-013-913A-76	Sequence 76, Appl
21	16.4	86.3	1989	US-10-007-194A-76	Sequence 76, Appl
22	16.4	86.3	1989	US-10-013-430A-76	Sequence 76, Appl
23	16.4	86.3	1989	US-10-011-671A-76	Sequence 76, Appl

24	16.4	86.3	1989	US-10-012-755A-76	Sequence 76, Appl
25	16.4	86.3	1989	US-10-015-386A-76	Sequence 76, Appl
26	16.4	86.3	1989	US-10-011-692A-76	Sequence 76, Appl
27	16.4	86.3	1989	US-10-006-768A-76	Sequence 76, Appl
28	16.4	86.3	1989	US-10-017-610A-76	Sequence 76, Appl
29	16.4	86.3	1989	US-10-006-063A-76	Sequence 76, Appl
30	16.4	86.3	1989	US-10-020-063A-76	Sequence 76, Appl
31	16.4	86.3	1989	US-10-015-391A-76	Sequence 76, Appl
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33	16.4	86.3	1989	US-10-011-833A-76	Sequence 76, Appl
34	16.4	86.3	1989	US-10-006-041A-76	Sequence 76, Appl
35	16.4	86.3	1989	US-10-015-822A-76	Sequence 76, Appl
36	16.4	86.3	1989	US-10-015-872A-76	Sequence 76, Appl
37	16.4	86.3	1989	US-10-006-130A-76	Sequence 76, Appl
38	16.4	86.3	1989	US-10-006-172A-76	Sequence 76, Appl
39	16.4	86.3	1989	US-10-017-253A-76	Sequence 76, Appl
40	16.4	86.3	1989	US-10-017-392A-76	Sequence 76, Appl
41	16.4	86.3	1989	US-10-017-306A-76	Sequence 76, Appl
42	16.4	86.3	1989	US-10-017-867A-76	Sequence 76, Appl
43	16.4	86.3	1989	US-10-012-064A-76	Sequence 76, Appl
44	16.4	86.3	1989	US-10-013-909A-76	Sequence 76, Appl
45	16.4	86.3	1989	US-10-015-671A-76	Sequence 76, Appl

#### ALIGNMENTS

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RESULT 1
US-10-169-395-18
; Sequence 18, Application US/10169395
; Publication No. US20040034192A1
; GENERAL INFORMATION:
; APPLICANT: KATO, Seishi
; APPLICANT: KIMURA, Tomoko
; TITLE OF INVENTION: HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING
; FILE REFERENCE: 01997.015100. US
; CURRENT APPLICATION NUMBER: US/10/169,395
; CURRENT FILING DATE: 2002-11-29
; PRIOR APPLICATION NUMBER: JP 2000-585
; PRIOR FILING DATE: 2000-01-06
; PRIOR APPLICATION NUMBER: JP 2000-588
; PRIOR FILING DATE: 2000-01-06
; PRIOR APPLICATION NUMBER: JP 2000-2239
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: JP 2000-26862
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: JP 2000-58367
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: PCT/JP00/09359
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 150
; SEQ ID NO 18
; LENGTH: 1329
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-169-395-18

Query Match      86.3%; Score 16.4; DB 7; Length 1329;
Best local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2 AATGTCATCGTCCCGAG 19
Db      982 AATGTCATCGTCCCGAG 999

RESULT 2
US-10-956-157-7824
; Sequence 7824, Application US/10956157
; Publication No. US20050118625A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
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/ APPLICANT: Mounts, William
/ TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
/ FILE REFERENCE: 031896-043000 (AM 101081)
/ CURRENT APPLICATION NUMBER: US/10/956,157
/ NUMBER OF SEQ ID NOS: 319805
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 7824
/ LENGTH: 1400
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-956-157-7824
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Query Match      86.3%; Score 16.4; DB 9; Length 1400;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db      123 AATGTCATCGTCCCGAG 140
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RESULT 3
US-10-956-157-9435
/ Sequence 9435, Application US/10956157
/ Publication No. US20050118625A1
/ GENERAL INFORMATION:
/ APPLICANT: Wyeth
/ TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
/ FILE REFERENCE: 031896-043000 (AM 101081)
/ CURRENT APPLICATION NUMBER: US/10/956,157
/ NUMBER OF SEQ ID NOS: 319805
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 9435
/ LENGTH: 1400
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-956-157-9435
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Query Match      86.3%; Score 16.4; DB 9; Length 1400;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy      2 AATGTCATCGTCCCGG 19
Db      420 AATGTCATCGTCCCGAG 437
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RESULT 4
US-09-925-298-301
/ Sequence 301, Application US/09925298
/ Publication No. US20020039764A1
/ GENERAL INFORMATION:
/ APPLICANT: Rosen et al.
/ TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
/ FILE REFERENCE: PA103
/ CURRENT APPLICATION NUMBER: US/09/925,298
/ CURRENT FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: PCT/US00/05881
/ PRIOR FILING DATE: 2000-03-08
/ PRIOR APPLICATION NUMBER: 60/124,270
/ PRIOR FILING DATE: 1999-03-12
/ NUMBER OF SEQ ID NOS: 846
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 301
/ LENGTH: 1882
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
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/ NAME/KEY: misc_feature
/ LOCATION: (22)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (223)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (1840)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (1845)
/ OTHER INFORMATION: n equals a,t,g, or c
US-09-925-298-301
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Query Match      86.3%; Score 16.4; DB 3; Length 1882;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy      2 AATGTCATCGTCCCGG 19
Db      529 AATGTCATCGTCCCGAG 546
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RESULT 5
US-10-102-806-301
/ Sequence 301, Application US/10102806
/ Publication No. US20030054421A1
/ GENERAL INFORMATION:
/ APPLICANT: Rosen et al.
/ TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
/ FILE REFERENCE: PA103PICI
/ CURRENT APPLICATION NUMBER: US/10/102,806
/ CURRENT FILING DATE: 2002-03-22
/ PRIOR APPLICATION NUMBER: 09/925,298
/ PRIOR FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: PCT/US00/05881
/ PRIOR FILING DATE: 2000-03-08
/ PRIOR APPLICATION NUMBER: 60/124,270
/ PRIOR FILING DATE: 1999-03-12
/ NUMBER OF SEQ ID NOS: 846
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 301
/ LENGTH: 1882
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (22)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (223)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (1840)
/ OTHER INFORMATION: n equals a,t,g, or c
/ NAME/KEY: misc_feature
/ LOCATION: (1845)
/ OTHER INFORMATION: n equals a,t,g, or c
US-10-102-806-301
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Query Match      86.3%; Score 16.4; DB 5; Length 1882;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy      2 AATGTCATCGTCCCGG 19
Db      529 AATGTCATCGTCCCGAG 546
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RESULT 6
US-09-764-853-238
/ Sequence 238, Application US/09764853
/ Patent No. US20020090672A1
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; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P206
; CURRENT APPLICATION NUMBER: US/09/764,853
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 939
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 238
; LENGTH: 1926
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-853-238

Query Match      86.3%; Score 16.4; DB 3; Length 1926;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
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Db       573 AATGTCATCGTCCCGG 590

RESULT 7
US-09-818-143-20
; Sequence 20, Application US/09818143
; Patent No. US20020019000A1
; GENERAL INFORMATION:
; APPLICANT: Walker, Michael G.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Klingler, Tod W.
; TITLE OF INVENTION: POLYNUCLEOTIDES COEXPRESSED WITH MATRIX-REMODELING GENES
; FILE REFERENCE: PB-0004 CIP
; CURRENT APPLICATION NUMBER: US/09/818,143
; CURRENT FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PERL Program
; SEQ ID NO 20
; LENGTH: 1987
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: 3948614CB1
US-09-818-143-20

Query Match      86.3%; Score 16.4; DB 3; Length 1987;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
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Db       716 AATGTCATCGTCCCGG 733

RESULT 8
US-09-946-374-76
; Sequence 76, Application US/0946374
; Publication No. US2003007129A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
```

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; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C1
; CURRENT APPLICATION NUMBER: US/09/946,374
; CURRENT FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098750
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098803
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098821
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; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/100385
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; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100684
; PRIOR FILING DATE: 1998-09-17
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PRIOR APPLICATION NUMBER: 60/100710  
PRIOR FILING DATE: 1998-09-17  
PRIOR APPLICATION NUMBER: 60/100711  
PRIOR FILING DATE: 1998-09-17  
PRIOR APPLICATION NUMBER: 60/100848  
PRIOR FILING DATE: 1998-09-18  
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PRIOR FILING DATE: 1998-09-18  
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PRIOR FILING DATE: 1998-09-30  
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PRIOR APPLICATION NUMBER: 60/102687  
PRIOR FILING DATE: 1998-10-01  
PRIOR APPLICATION NUMBER: 60/102965  
PRIOR FILING DATE: 1998-10-02  
PRIOR APPLICATION NUMBER: 60/103258  
PRIOR FILING DATE: 1998-10-06  
PRIOR APPLICATION NUMBER: 60/103314  
PRIOR FILING DATE: 1998-10-07  
PRIOR APPLICATION NUMBER: 60/103315

PRIOR FILING DATE: 1998-10-07  
PRIOR APPLICATION NUMBER: 60/103328  
PRIOR FILING DATE: 1998-10-07  
PRIOR APPLICATION NUMBER: 60/103395  
PRIOR FILING DATE: 1998-10-07  
PRIOR APPLICATION NUMBER: 60/103396  
PRIOR FILING DATE: 1998-10-07  
PRIOR APPLICATION NUMBER: 60/103401  
PRIOR FILING DATE: 1998-10-07  
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PRIOR APPLICATION NUMBER: 60/103679  
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PRIOR APPLICATION NUMBER: 60/105169  
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PRIOR APPLICATION NUMBER: 60/105266  
PRIOR FILING DATE: 1998-10-22  
PRIOR APPLICATION NUMBER: 60/105693  
PRIOR FILING DATE: 1998-10-26  
PRIOR APPLICATION NUMBER: 60/105694  
PRIOR FILING DATE: 1998-10-26  
PRIOR APPLICATION NUMBER: 60/105807

Query Match 86.3%; Score 16.4; DB 3; Length 1989;  
Best Local Similarity 94.4%; Pred. No. 1.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 2 AATGTCATCGTCCCGG 19  
Db 715 AATGTCATCGTCCCGAG 732

RESULT 9  
US-10-006-856A-76  
Sequence 76, Application US/10006856A  
Publication No. US20030044841A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2830P1C14  
CURRENT APPLICATION NUMBER: US/10/006.856A  
NUMBER OF SEQ ID NOS: 477



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/ Prior Application removed - See File Wrapper or Palm
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-006-856A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
DB      715 AATGTCATCGTCCCGG 732

RESULT 10
US-10-006-818A-76
/ Sequence 76, Application US/10006818A
/ Publication No. US20030054406A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830PIC4
/ CURRENT FILING DATE: 2001-12-06
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ. ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-006-818A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCGG 19
DB      715 AATGTCATCGTCCCGG 732

RESULT 11
US-10-006-485A-76
/ Sequence 76, Application US/10006485A
/ Publication No. US20030064062A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
```

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/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830PIC9
/ CURRENT FILING DATE: 2001-12-06
/ Prior Application Number: 60/098716
/ Prior Filing Date: 1998-09-01
/ Prior Application Number: 60/098723
/ Prior Filing Date: 1998-09-01
/ Prior Application Number: 60/098749
/ Prior Filing Date: 1998-09-01
/ Prior Application Number: 60/098750
/ Prior Filing Date: 1998-09-01
/ Prior Application Number: 60/098803
/ Prior Filing Date: 1998-09-02
/ Prior Application Number: 60/098821
/ Prior Filing Date: 1998-09-02
/ Prior Application Number: 60/098843
/ Prior Filing Date: 1998-09-02
/ Prior Application Number: 60/099536
/ Prior Filing Date: 1998-09-09
/ Prior Application Number: 60/099596
/ Prior Filing Date: 1998-09-09
/ Prior Application Number: 60/099598
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/ Prior Filing Date: 1998-09-09
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/ Prior Filing Date: 1998-09-10
/ Prior Application Number: 60/099754
/ Prior Filing Date: 1998-09-10
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/ Prior Filing Date: 1998-09-10
/ Prior Application Number: 60/099792
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/ Prior Application Number: 60/099815
/ Prior Filing Date: 1998-09-10
/ Prior Application Number: 60/099816
/ Prior Filing Date: 1998-09-10
/ Prior Application Number: 60/100385
/ Prior Filing Date: 1998-09-15
/ Prior Application Number: 60/100388
/ Prior Filing Date: 1998-09-15
/ Prior Application Number: 60/100390
/ Prior Filing Date: 1998-09-15
/ Prior Application Number: 60/100584
/ Prior Filing Date: 1998-09-16
/ Prior Application Number: 60/100627
/ Prior Filing Date: 1998-09-16
/ Prior Application Number: 60/100661
/ Prior Filing Date: 1998-09-16
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/ Prior Filing Date: 1998-09-16
/ Prior Application Number: 60/100683
/ Prior Filing Date: 1998-09-17
/ Prior Application Number: 60/100684
/ Prior Filing Date: 1998-09-17
/ Prior Application Number: 60/100710
/ Prior Filing Date: 1998-09-17
/ Prior Application Number: 60/100711
/ Prior Filing Date: 1998-09-17
/ Prior Application Number: 60/100848
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;; PRIOR FILING DATE: 1998-09-18  
;; PRIOR APPLICATION NUMBER: 60/100849  
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;; PRIOR FILING DATE: 1998-09-17  
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;; PRIOR APPLICATION NUMBER: 60/105266  
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;; PRIOR APPLICATION NUMBER: 60/105881  
;; PRIOR FILING DATE: 1998-10-27  
;; PRIOR APPLICATION NUMBER: 60/105882  
;; PRIOR FILING DATE: 1998-10-27  
;; PRIOR APPLICATION NUMBER: 60/106023  
;; PRIOR FILING DATE: 1998-10-28

Query Match 86.3%; Score 16.4; DB 5; Length 1989;  
Best Local Similarity 94.4%; Pred. No. 1.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATGTCCTCCGGG 19  
DB 715 AATGTCATGTCCTCCGGG 732

RESULT 12  
US-10-013-907A-76  
; Sequence 76, Application US/10013907A  
; Publication No. US20030064925A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Borstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan I.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2830PIC34  
; CURRENT APPLICATION NUMBER: US/10/013,907A

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; CURRENT FILING DATE: 2001-12-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-013-907A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCCGGG 19
DB      715 AATGTCATCGTCCCCGAG 732

RESULT 13
US-10-015-499A-76
; Sequence 76, Application US/10015499A
; Publication No. US20030065142A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C42
; CURRENT APPLICATION NUMBER: US/10/015,499A
; CURRENT FILING DATE: 2001-12-11
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-015-499A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCCGGG 19
DB      715 AATGTCATCGTCCCCGAG 732

RESULT 14
US-10-015-393A-76
; Sequence 76, Application US/10015393A
; Publication No. US20030069179A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
```

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; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C46
; CURRENT APPLICATION NUMBER: US/10/015,393A
; CURRENT FILING DATE: 2002-06-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-015-393A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCCGGG 19
DB      715 AATGTCATCGTCCCCGAG 732

RESULT 15
US-10-015-869A-76
; Sequence 76, Application US/10015869A
; Publication No. US20030073130A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C45
; CURRENT APPLICATION NUMBER: US/10/015,869A
; CURRENT FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 76
; LENGTH: 1989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-015-869A-76

Query Match      86.3%; Score 16.4; DB 5; Length 1989;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATCGTCCCCGGG 19
DB      715 AATGTCATCGTCCCCGAG 732

Search completed: December 3, 2005, 03:22:27
Job time : 21.156 secs
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100 Blank (uspto)

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: December 2, 2005, 23:40:24 Search time 3.17282 Seconds  
(without alignments)  
1863.702 Million cell updates/sec

Title: US-09-979-558a-2

Perfect score: 19 taatgtcatcgtcccg 19

Sequence: 1 taatgtcatcgtcccg 19

Scoring table: IDENTITY NUC  
Gapco 10.0, Gapext 1.0

Searched: 3289935 seqs, 15561003 residues

Total number of hits satisfying chosen parameters: 6579870

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database:

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10: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	15.4	81.1	1042	6 US-10-750-185-61069	Sequence 61069, A
2	14.8	77.9	991	6 US-10-750-185-10544	Sequence 30544, A
3	14.8	77.9	1323	6 US-10-821-234-430	Sequence 430, App
4	14.8	77.9	1462	6 US-10-750-185-45402	Sequence 45402, A
5	14.4	75.8	19	8 US-11-101-244-1513769	Sequence 1513769, A
6	14.4	75.8	19	8 US-11-101-244-1513798	Sequence 1513798, A
7	14.4	75.8	19	9 US-11-083-784-1513769	Sequence 1513769, A
8	14.4	75.8	19	9 US-11-083-784-1513798	Sequence 1513798, A
9	14.4	75.8	1131	6 US-10-750-185-29301	Sequence 29301, A
10	14.2	74.7	1224	6 US-10-750-185-26730	Sequence 26730, A
11	14.2	74.7	1744	6 US-10-750-185-27275	Sequence 27275, A
12	14.2	74.7	3176	6 US-10-750-185-43645	Sequence 43645, A
13	14.2	74.7	155515	7 US-11-112-908-43	Sequence 43, App1
14	14.2	74.7	159660	7 US-11-112-908-43	Sequence 43, App1
15	14.2	74.7	177623	7 US-11-112-908-41	Sequence 41, App1
16	14.2	73.7	1799	6 US-10-750-185-56513	Sequence 56513, A
17	13.8	72.6	19	8 US-11-101-244-183098	Sequence 183098, A
18	13.8	72.6	19	9 US-11-083-784-183098	Sequence 183098, A
19	13.8	72.6	717	6 US-10-467-657-5135	Sequence 5135, App
20	13.8	72.6	762	6 US-10-467-657-5137	Sequence 5137, App
21	13.8	72.6	1411	6 US-10-750-185-36853	Sequence 36853, A
22	13.8	72.6	1806	6 US-10-131-826A-121	Sequence 121, App
23	13.8	72.6	2292	6 US-10-821-234-168	Sequence 168, App

#### ALIGNMENTS

24	13.8	72.6	3055	7 US-11-102-217-26	Sequence 26, App1
25	13.8	72.6	3532	6 US-10-750-185-51277	Sequence 51277, A
26	13.8	72.6	5034	7 US-11-102-217-30	Sequence 30, App1
27	13.8	72.6	5483	7 US-11-102-217-38	Sequence 38, App1
28	13.8	72.6	6071	7 US-11-102-217-29	Sequence 29, App1
29	13.8	72.6	7926	7 US-11-102-217-53	Sequence 53, App1
30	13.8	72.6	8499	7 US-11-102-217-37	Sequence 37, App1
31	13.4	70.5	19	8 US-11-101-244-49886	Sequence 49886, A
32	13.4	70.5	19	9 US-11-083-784-49886	Sequence 49886, A
33	13.4	70.5	1146	6 US-10-858-730-171	Sequence 171, App
34	13.4	70.5	16382	7 US-11-108-172-1112	Sequence 1112, App
35	13.2	69.5	19	8 US-11-101-244-1282003	Sequence 1282003, A
36	13.2	69.5	19	9 US-11-083-784-1282003	Sequence 1282003, A
37	13.2	69.5	552	7 US-11-074-176-15	Sequence 15, App1
38	13.2	69.5	600	6 US-10-750-185-20926	Sequence 20926, A
39	13.2	69.5	936	6 US-10-750-185-37279	Sequence 37279, A
40	13.2	69.5	1158	6 US-10-392-234A-27	Sequence 27, App1
41	13.2	69.5	1212	6 US-10-858-730-55	Sequence 55, App1
42	13.2	69.5	1448	6 US-10-750-185-46298	Sequence 46298, A
43	13.2	69.5	1534	6 US-10-750-185-62976	Sequence 62976, A
44	13.2	69.5	1594	6 US-10-750-185-43137	Sequence 43137, A
45	13.2	69.5	1648	6 US-10-750-185-59897	Sequence 59897, A

RESULT 1  
US-10-750-185-61069 Application US/10750185  
Publication No. US20050260603A1  
GENERAL INFORMATION:  
APPLICANT: MMT GENOMICS, INC.  
APPLICANT: DENISE, Sue K.  
APPLICANT: KERK, Richard  
APPLICANT: ROSENFELD, David  
APPLICANT: HOLM, Tom  
APPLICANT: BATES, Stephen  
APPLICANT: FANTIN, Dennis  
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
FILE REFERENCE: MM1100-2  
CURRENT APPLICATION NUMBER: US/10/750,185  
CURRENT FILING DATE: 2003-12-31  
PRIOR APPLICATION NUMBER: US 60/437,482  
PRIOR FILING DATE: 2002-12-31  
NUMBER OF SEQ ID NOS: 64922  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 61069  
LENGTH: 1042  
TYPE: DNA  
ORGANISM: Bovine 19866881140809  
US-10-750-185-61069

Query Match 81.1% Score 15.4; DB 6; Length 1042;  
Best Local Similarity 94.1%; Pred. No. 43;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TAAATGTCATGTCCTCCG 17  
DB 900 TAAATGTCATGTCCTCCG 916

RESULT 2  
US-10-750-185-30544/c  
Sequence 30544, Application US/10750185  
Publication No. US20050260603A1  
GENERAL INFORMATION:  
APPLICANT: MMT GENOMICS, INC.  
APPLICANT: DENISE, Sue K.  
APPLICANT: KERK, Richard  
APPLICANT: ROSENFELD, David  
APPLICANT: HOLM, Tom  
APPLICANT: BATES, Stephen

```
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10/750,185
/ PRIOR FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO: 30544
/ LENGTH: 991
/ TYPE: DNA
/ ORGANISM: Bovine 1986688165598
US-10-750-185-30544

Query Match      77.9%; Score 14.8; DB 6; Length 991;
Best Local Similarity 88.9%; Pred. No. 85;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      2 AATGTCATCGTCCCGG 19
DB      731 AATGTCATCTCCACGG 714

RESULT 3
US-10-821-234-430/c
/ Sequence 430, Application US/10821234
/ Publication No. US20050255114A1
/ GENERAL INFORMATION:
/ APPLICANT: Labat, Ivan
/ APPLICANT: Stache-Crain, Birgit
/ APPLICANT: Andarche, Susan
/ APPLICANT: Tang, Y. Tom
/ TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
/ FILE REFERENCE: 821A
/ CURRENT APPLICATION NUMBER: US/10/821,234
/ CURRENT FILING DATE: 2004-04-07
/ PRIOR APPLICATION NUMBER: US 60/462,047
/ PRIOR FILING DATE: 2003-04-07
/ NUMBER OF SEQ ID NOS: 1704
/ SOFTWARE: PC_SEQ_genes Version 1.0
/ SEQ ID NO: 430
/ LENGTH: 1323
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-821-234-430

Query Match      77.9%; Score 14.8; DB 6; Length 1323;
Best Local Similarity 88.9%; Pred. No. 86;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      2 AATGTCATCGTCCCGG 19
DB      1275 AATGTCATCTCCACGG 1258

RESULT 4
US-10-750-185-45402
/ Sequence 45402, Application US/10750185
/ Publication No. US200502603A1
/ GENERAL INFORMATION:
/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFEUD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10/750,185
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
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/ PRIOR FILING DATE: 2002-12-31
/ NUMBER OF SEQ ID NOS: 64922
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO: 45402
/ LENGTH: 1462
/ TYPE: DNA
/ ORGANISM: Bovine 19866880900426
US-10-750-185-45402

Query Match      77.9%; Score 14.8; DB 6; Length 1462;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 TAATGTCATCGTCCCGG 18
DB      1274 TAATGTCATGTCCTCG 1291

RESULT 5
US-11-101-244-1513769/c
/ Sequence 1513769, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
/ NUMBER OF SEQ ID NOS: 1591911
/ SOFTWARE: Proprietary
/ SEQ ID NO: 1513769
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Homo sapiens
US-11-101-244-1513769

Query Match      75.8%; Score 14.4; DB 8; Length 19;
Best Local Similarity 93.8%; Pred. No. 1,1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2 AATGTCATCGTCCCGG 17
DB      19 AATGTCATGTCCTCG 4

RESULT 6
US-11-101-244-1513798/c
/ Sequence 1513798, Application US/11101244
/ Publication No. US20050246794A1
/ GENERAL INFORMATION:
/ APPLICANT: Dharmoon, Inc.
/ APPLICANT: Khvorova, Anastasia
/ APPLICANT: Reynolds, Angela
/ APPLICANT: Leake, Devin
/ APPLICANT: Marshall, William
/ APPLICANT: Scaringe, Stephen
/ TITLE OF INVENTION: Functional and Hyperfunctional siRNA
/ FILE REFERENCE: 13499US
/ CURRENT APPLICATION NUMBER: US/11/101,244
/ CURRENT FILING DATE: 2005-04-07
/ PRIOR APPLICATION NUMBER: 60/502,050
/ PRIOR FILING DATE: 2003-09-10
/ PRIOR APPLICATION NUMBER: 60/426,137
/ PRIOR FILING DATE: 2002-11-14
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NUMBER OF SEQ ID NOS: 1591911  
SOFTWARE: Proprietary  
SEQ ID NO 1513798  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-101-244-1513798

Query Match 75.8%; Score 14.4; DB 8; Length 19;  
Best Local Similarity 93.8%; Pred. No. 1.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATCGTCCCG 17  
|||||  
Db 16 AATGTCATCGTCTCG 1

RESULT 7  
US-11-083-784-1513769/c  
Sequence 1513769, Application US/11083784  
Publication No. US20050245475A1  
GENERAL INFORMATION:  
APPLICANT: Pharmacom, Inc.  
APPLICANT: Khvorova, Anastasia  
APPLICANT: Reynolds, Angela  
APPLICANT: Leake, Devin  
APPLICANT: Marshall, William  
APPLICANT: Scaringe, Stephen  
TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
FILE REFERENCE: 13498US  
CURRENT APPLICATION NUMBER: US/11/083,784  
CURRENT FILING DATE: 2005-03-18  
PRIOR APPLICATION NUMBER: US/10/714,333  
PRIOR FILING DATE: 2003-11-14  
PRIOR APPLICATION NUMBER: 60/502,050  
PRIOR FILING DATE: 2003-09-10  
PRIOR APPLICATION NUMBER: 60/426,137  
PRIOR FILING DATE: 2002-11-14  
NUMBER OF SEQ ID NOS: 1591911  
SOFTWARE: Proprietary  
SEQ ID NO 1513769  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-083-784-1513769

Query Match 75.8%; Score 14.4; DB 9; Length 19;  
Best Local Similarity 93.8%; Pred. No. 1.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATCGTCCCG 17  
|||||  
Db 19 AATGTCATCGTCTCG 4

RESULT 8  
US-11-083-784-1513798/c  
Sequence 1513798, Application US/11083784  
Publication No. US20050245475A1  
GENERAL INFORMATION:  
APPLICANT: Pharmacom, Inc.  
APPLICANT: Khvorova, Anastasia  
APPLICANT: Reynolds, Angela  
APPLICANT: Leake, Devin  
APPLICANT: Marshall, William  
APPLICANT: Scaringe, Stephen  
TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
FILE REFERENCE: 13498US  
CURRENT APPLICATION NUMBER: US/11/083,784  
CURRENT FILING DATE: 2005-03-18  
PRIOR APPLICATION NUMBER: US/10/714,333  
PRIOR FILING DATE: 2003-11-14  
PRIOR APPLICATION NUMBER: 60/502,050

PRIOR FILING DATE: 2003-09-10  
PRIOR APPLICATION NUMBER: 60/426,137  
PRIOR FILING DATE: 2002-11-14  
NUMBER OF SEQ ID NOS: 1591911  
SOFTWARE: Proprietary  
SEQ ID NO 1513798  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Homo sapiens  
US-11-083-784-1513798

Query Match 75.8%; Score 14.4; DB 9; Length 19;  
Best Local Similarity 93.8%; Pred. No. 1.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATCGTCCCG 17  
|||||  
Db 16 AATGTCATCGTCTCG 1

RESULT 9  
US-10-750-185-29301  
Sequence 29301, Application US/10750185  
Publication No. US20050260603A1  
GENERAL INFORMATION:  
APPLICANT: MMT GENOMICS, INC.  
APPLICANT: DENISE, Sue K.  
APPLICANT: KERR, Richard  
APPLICANT: ROSENFELD, David  
APPLICANT: HOLM, Tom  
APPLICANT: BATES, Stephen  
APPLICANT: PANTIN, Dennis  
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
FILE REFERENCE: MM1100-2  
CURRENT APPLICATION NUMBER: US/10/750,185  
CURRENT FILING DATE: 2003-12-31  
PRIOR APPLICATION NUMBER: US 60/437,482  
PRIOR FILING DATE: 2002-12-31  
NUMBER OF SEQ ID NOS: 64922  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 29301  
LENGTH: 1131  
TYPE: DNA  
ORGANISM: Bovine 19866881234047  
US-10-750-185-29301

Query Match 75.8%; Score 14.4; DB 6; Length 1131;  
Best Local Similarity 93.8%; Pred. No. 1.4e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TGTGATGTCCTCCCGG 19  
|||||  
Db 110 TGTGATGTCCTCCCGG 125

RESULT 10  
US-10-750-185-26730  
Sequence 26730, Application US/10750185  
Publication No. US20050260603A1  
GENERAL INFORMATION:  
APPLICANT: MMT GENOMICS, INC.  
APPLICANT: DENISE, Sue K.  
APPLICANT: KERR, Richard  
APPLICANT: ROSENFELD, David  
APPLICANT: HOLM, Tom  
APPLICANT: BATES, Stephen  
APPLICANT: PANTIN, Dennis  
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
FILE REFERENCE: MM1100-2  
CURRENT APPLICATION NUMBER: US/10/750,185  
CURRENT FILING DATE: 2003-12-31  
PRIOR APPLICATION NUMBER: US 60/437,482  
PRIOR FILING DATE: 2002-12-31

/ NUMBER OF SEQ ID NOS: 64922  
/ SOFTWARE: Patentin version 3.1  
/ SEQ ID NO: 26730  
/ LENGTH: 1224  
/ TYPE: DNA  
/ ORGANISM: Bovine 19866881201331  
US-10-750-185-26730

Query Match 74.7%; Score 14.2; DB 6; Length 1224;  
Best Local Similarity 84.2%; Pred. No. 1.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCCGGG 19  
DB 374 TAATGTCATGTCCTCCAGG 392

RESULT 11  
US-10-750-185-27275  
/ Sequence 27275, Application US/10750185  
/ Publication No. US20050260603A1  
/ GENERAL INFORMATION:  
/ APPLICANT: MMI GENOMICS, INC.  
/ APPLICANT: DENISE, Sue K.  
/ APPLICANT: KERR, Richard  
/ APPLICANT: ROSENFELD, David  
/ APPLICANT: HOLM, Tom  
/ APPLICANT: BATES, Stephen  
/ APPLICANT: FANTIN, Dennis  
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
/ FILE REFERENCE: MM1100-2  
/ CURRENT APPLICATION NUMBER: US/10/750,185  
/ CURRENT FILING DATE: 2003-12-31  
/ PRIOR APPLICATION NUMBER: US 60/437,482  
/ PRIOR FILING DATE: 2002-12-31  
/ NUMBER OF SEQ ID NOS: 64922  
/ SOFTWARE: Patentin version 3.1  
/ SEQ ID NO: 27275  
/ LENGTH: 1744  
/ TYPE: DNA  
/ ORGANISM: Bovine 19866880624605  
US-10-750-185-27275

Query Match 74.7%; Score 14.2; DB 6; Length 1744;  
Best Local Similarity 84.2%; Pred. No. 1.8e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCCGGG 19  
DB 1089 TACTGTCATGTCCTCGGG 1107

RESULT 12  
US-10-750-185-43645/c  
/ Sequence 43645, Application US/10750185  
/ Publication No. US20050260603A1  
/ GENERAL INFORMATION:  
/ APPLICANT: MMI GENOMICS, INC.  
/ APPLICANT: DENISE, Sue K.  
/ APPLICANT: KERR, Richard  
/ APPLICANT: ROSENFELD, David  
/ APPLICANT: HOLM, Tom  
/ APPLICANT: BATES, Stephen  
/ APPLICANT: FANTIN, Dennis  
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
/ FILE REFERENCE: MM1100-2  
/ CURRENT APPLICATION NUMBER: US/10/750,185  
/ CURRENT FILING DATE: 2003-12-31  
/ PRIOR APPLICATION NUMBER: US 60/437,482  
/ PRIOR FILING DATE: 2002-12-31  
/ NUMBER OF SEQ ID NOS: 64922  
/ SOFTWARE: Patentin version 3.1  
/ SEQ ID NO: 43645

/ LENGTH: 3176  
/ TYPE: DNA  
/ ORGANISM: Bovine 19866880681516  
US-10-750-185-43645

Query Match 74.7%; Score 14.2; DB 6; Length 3176;  
Best Local Similarity 84.2%; Pred. No. 1.8e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCCGGG 19  
DB 172 TCATGTCATGTCCTCGG 154

RESULT 13  
US-11-112-908-42  
/ Sequence 42, Application US/11112908  
/ Publication No. US20050260659A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Harris, Cole  
/ APPLICANT: Davis, Lisa M.  
/ TITLE OF INVENTION: Breast Cancer Biomarkers  
/ FILE REFERENCE: 04-164-US  
/ CURRENT APPLICATION NUMBER: US/11/112,908  
/ CURRENT FILING DATE: 2005-04-22  
/ PRIOR APPLICATION NUMBER: US 60/564,758  
/ PRIOR FILING DATE: 2004-04-23  
/ PRIOR APPLICATION NUMBER: US 60/575,978  
/ PRIOR FILING DATE: 2004-06-01  
/ PRIOR APPLICATION NUMBER: US 60/631,702  
/ PRIOR FILING DATE: 2004-11-30  
/ PRIOR APPLICATION NUMBER: US 60/633,826  
/ PRIOR FILING DATE: 2004-12-07  
/ NUMBER OF SEQ ID NOS: 511  
/ SOFTWARE: Patentin version 3.3  
/ SEQ ID NO: 42  
/ LENGTH: 15515  
/ TYPE: DNA  
/ ORGANISM: Homo sapiens  
US-11-112-908-42

Query Match 74.7%; Score 14.2; DB 7; Length 15515;  
Best Local Similarity 84.2%; Pred. No. 2.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCCGGG 19  
DB 101533 TAATGTCATGTCCTCGGG 101551

RESULT 14  
US-11-112-908-43  
/ Sequence 43, Application US/11112908  
/ Publication No. US20050260659A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Harris, Cole  
/ APPLICANT: Davis, Lisa M.  
/ TITLE OF INVENTION: Breast Cancer Biomarkers  
/ FILE REFERENCE: 04-164-US  
/ CURRENT APPLICATION NUMBER: US/11/112,908  
/ CURRENT FILING DATE: 2005-04-22  
/ PRIOR APPLICATION NUMBER: US 60/564,758  
/ PRIOR FILING DATE: 2004-04-23  
/ PRIOR APPLICATION NUMBER: US 60/575,978  
/ PRIOR FILING DATE: 2004-06-01  
/ PRIOR APPLICATION NUMBER: US 60/631,702  
/ PRIOR FILING DATE: 2004-11-30  
/ PRIOR APPLICATION NUMBER: US 60/633,826  
/ PRIOR FILING DATE: 2004-12-07  
/ NUMBER OF SEQ ID NOS: 511  
/ SOFTWARE: Patentin version 3.3  
/ SEQ ID NO: 43  
/ LENGTH: 159660

; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-112-908-43

Query Match 74.7%; Score 14.2; DB 7; Length 159660;  
Best Local Similarity 84.2%; Pred. No. 2.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCGGG 19  
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DB 91336 TAATGCCATGTCCTCGGG 91354

RESULT 15  
US-11-112-908-41  
; Sequence 41, Application US/11112908  
; Publication No. US2005026059A1  
; GENERAL INFORMATION:  
; APPLICANT: Harris, Cole  
; APPLICANT: Davis, Lisa M.  
; TITLE OF INVENTION: Breast Cancer Biomarkers  
; FILE REFERENCE: 04-164-US  
; CURRENT APPLICATION NUMBER: US/11/112,908  
; CURRENT FILING DATE: 2005-04-22  
; PRIOR APPLICATION NUMBER: US 60/564,758  
; PRIOR FILING DATE: 2004-04-23  
; PRIOR APPLICATION NUMBER: US 60/575,978  
; PRIOR FILING DATE: 2004-06-01  
; PRIOR APPLICATION NUMBER: US 60/631,702  
; PRIOR FILING DATE: 2004-11-30  
; PRIOR APPLICATION NUMBER: US 60/633,826  
; PRIOR FILING DATE: 2004-12-07  
; NUMBER OF SEQ ID NOS: 511  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 41  
; LENGTH: 177623  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-112-908-41

Query Match 74.7%; Score 14.2; DB 7; Length 177623;  
Best Local Similarity 84.2%; Pred. No. 2.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TAATGTCATGTCCTCGGG 19  
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DB 159600 TAATGCCATGTCCTCGGG 159618

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Job time : 4.17282 secs

Fig. 1 Page Blank (uspo)

GenCore version 5.1.6  
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OM nucleic - nucleic search, using SW model

Run on: December 2, 2005, 14:31:47 ; Search time 4.25502 Seconds  
(without alignments)  
7937.378 Million cell updates/sec

Title: US-09-979-558a-2

Perfect score: 19  
Sequence: 1 taatgcatcgtcccgag 19

Scoring table: IDENTITY NUC  
Gapco 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database: Issued Patents NA:\*

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- 2: /cgn2\_6/ptodata/1/ina/5\_COMB.seq:\*
- 3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*
- 4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*
- 5: /cgn2\_6/ptodata/1/ina/H\_COMB.seq:\*
- 6: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*
- 7: /cgn2\_6/ptodata/1/ina/PP\_COMB.seq:\*
- 8: /cgn2\_6/ptodata/1/ina/RE\_COMB.seq:\*
- 9: /cgn2\_6/ptodata/1/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	16.4	86.3	1989	US-10-012-231A-76	Sequence 76, Appl
2	16.4	86.3	1989	US-10-015-389A-76	Sequence 76, Appl
3	16.4	86.3	1989	US-10-006-768A-76	Sequence 76, Appl
4	16.4	86.3	1989	US-10-015-671A-76	Sequence 76, Appl
5	16.4	86.3	1989	US-10-015-393A-76	Sequence 76, Appl
6	16.4	86.3	1989	US-10-011-833A-76	Sequence 76, Appl
7	16.4	86.3	1989	US-10-006-041A-76	Sequence 76, Appl
8	16.4	86.3	1989	US-10-012-064A-76	Sequence 76, Appl
9	16.4	86.3	2132	US-09-552-322-1	Sequence 1, Appl
10	15.4	81.1	597	US-09-605-703B-2881	Sequence 2881, Ap
11	15.4	81.1	601	US-09-949-016-136502	Sequence 136302,
12	15.4	81.1	2338	US-09-582-337-1	Sequence 1, Appl
13	15.4	81.1	2350	US-09-187-478-1	Sequence 1, Appl
14	15.4	81.1	2350	US-09-292-036-1	Sequence 1, Appl
15	15.4	81.1	51049	US-09-949-016-15571	Sequence 15571, A
16	15.4	81.1	636	US-09-902-540-8517	Sequence 8517, Ap
17	15.4	78.9	6855	US-09-902-540-897	Sequence 897, Ap
18	14.8	77.9	99	US-08-427-097-12	Sequence 12, Appl
19	14.8	77.9	99	US-08-878-957-12	Sequence 12, Appl
20	14.8	77.9	170	US-08-419-078-5	Sequence 5, Appl
21	14.8	77.9	170	US-08-419-078-5	Sequence 5, Appl
22	14.8	77.9	170	US-08-726-883-5	Sequence 5, Appl
23	14.8	77.9	170	US-08-726-883-5	Sequence 5, Appl
24	14.8	77.9	300	US-08-419-078-4	Sequence 4, Appl

c	25	14.8	77.9	300	2	US-08-726-883-4	Sequence 4, Appl
	26	14.8	77.9	384	3	US-09-389-681-451	Sequence 451, App
	27	14.8	77.9	384	3	US-09-620-405B-451	Sequence 451, App
	28	14.8	77.9	384	3	US-09-433-828B-451	Sequence 451, App
	29	14.8	77.9	384	3	US-09-604-287A-451	Sequence 451, App
	30	14.8	77.9	384	3	US-09-834-759-451	Sequence 451, App
	31	14.8	77.9	384	3	US-09-590-751A-451	Sequence 451, App
	32	14.8	77.9	384	3	US-09-551-621A-451	Sequence 451, App
	33	14.8	77.9	384	3	US-09-551-621A-451	Sequence 451, App
	34	14.8	77.9	384	3	US-10-076-622-451	Sequence 451, App
	35	14.8	77.9	686	3	US-09-533-559-6102	Sequence 6102, Ap
c	36	14.8	77.9	879	3	US-09-248-796A-7856	Sequence 7856, Ap
	37	14.8	77.9	1022	3	US-10-002-344A-48	Sequence 48, Appl
c	38	14.8	77.9	1322	2	US-08-419-078-1	Sequence 1, Appl
c	39	14.8	77.9	1322	2	US-08-726-883-1	Sequence 1, Appl
c	40	14.8	77.9	1323	3	US-09-023-655-55	Sequence 55, Appl
c	41	14.8	77.9	1594	3	US-09-270-767-14907	Sequence 14907, A
c	42	14.8	77.9	1752	2	US-08-427-097-13	Sequence 13, Appl
	43	14.8	77.9	1752	2	US-08-427-097-13	Sequence 13, Appl
	44	14.8	77.9	1752	2	US-08-878-957-13	Sequence 13, Appl
	45	14.8	77.9	1752	2	US-08-878-957-13	Sequence 13, Appl

## ALIGNMENTS

RESULT 1  
US-10-012-231A-76  
; Sequence 76, Application US/10012231A  
; Patent No. 6924355  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Batton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Pong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gunney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2830PIC23  
; CURRENT APPLICATION NUMBER: US/10/012.231A  
; CURRENT FILING DATE: 2002-06-10  
; Prior Application removed - See File wrapper or Palm  
; NUMBER OF SEQ ID NOS: 477  
; SEQ ID NO 76  
; LENGTH: 1989  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-012-231A-76  
Query Match 86.3%; Score 16.4; DB 3; Length 1989;  
Best Local Similarity 94.4%; Pred. No. 97;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Db 715 AATGTCATCGTCCCGAG 732  
OY 2 AATGTCATCGTCCCGAG 19  
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US-10-015-389A-76  
; Sequence 76, Application US/10015389A  
; Patent No. 6936436  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.

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/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan 1.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830P1C48
/ CURRENT APPLICATION NUMBER: US/10/015,389A
/ CURRENT FILING DATE: 2002-06-25
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-015-389A-76
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Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      2 AATGTCATCGTCCCCGGG 19
      |||||
Db      715 AATGTCATCGTCCCCGAG 732
```

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RESULT 3
US-10-006-768A-76
/ Sequence 76, Application US/10006768A
/ Patent No. 6936697
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan 1.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830P1C10
/ CURRENT APPLICATION NUMBER: US/10/006,768A
/ CURRENT FILING DATE: 2002-03-05
/ NUMBER OF SEQ ID NOS: 477
/ Prior Application removed - See File Wrapper or Palm
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-006-768A-76
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```
Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      2 AATGTCATCGTCCCCGGG 19
      |||||
```

```
Db      715 AATGTCATCGTCCCCGAG 732
```

```
RESULT 4
US-10-015-671A-76
/ Sequence 76, Application US/10015671A
/ Patent No. 6946263
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan 1.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830P1C47
/ CURRENT APPLICATION NUMBER: US/10/015,671A
/ CURRENT FILING DATE: 2001-12-11
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-015-671A-76
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Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      2 AATGTCATCGTCCCCGGG 19
      |||||
Db      715 AATGTCATCGTCCCCGAG 732
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RESULT 5
US-10-015-393A-76
/ Sequence 76, Application US/10015393A
/ Patent No. 6951737
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan 1.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830P1C46
/ CURRENT APPLICATION NUMBER: US/10/015,393A
/ CURRENT FILING DATE: 2002-06-10
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
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/ ORGANISM: Homo sapiens
US-10-015-393A-76

Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATGCTCCCGG 19
DB      715 AATGTCATGCTCCCGG 732

RESULT 6
US-10-011-833A-76
/ Sequence 76, Application US/10011833A
/ Patent No. 6951920
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan I.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830PIC22
/ CURRENT APPLICATION NUMBER: US/10/011,833A
/ CURRENT FILING DATE: 2002-06-25
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-011-833A-76

Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATGCTCCCGG 19
DB      715 AATGTCATGCTCCCGG 732

RESULT 7
US-10-006-041A-76
/ Sequence 76, Application US/10006041A
/ Patent No. 6951921
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan I.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
```

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/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: P2830PIC8
/ CURRENT APPLICATION NUMBER: US/10/006,041A
/ CURRENT FILING DATE: 2001-12-06
/ Prior Application removed - See File Wrapper or Palm
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-006-041A-76

Query Match      86.3%; Score 16.4; DB 3; Length 1989;
Best Local Similarity 94.4%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 AATGTCATGCTCCCGG 19
DB      715 AATGTCATGCTCCCGG 732

RESULT 8
US-10-012-064A-76
/ Sequence 76, Application US/10012064A
/ Patent No. 6953841
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan I.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2830PIC19
/ CURRENT APPLICATION NUMBER: US/10/012,064A
/ CURRENT FILING DATE: 2002-07-15
/ PRIOR APPLICATION NUMBER: 60/098716
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098723
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098749
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098750
/ PRIOR FILING DATE: 1998-09-01
/ PRIOR APPLICATION NUMBER: 60/098803
/ PRIOR FILING DATE: 1998-09-02
/ PRIOR APPLICATION NUMBER: 60/098821
/ PRIOR FILING DATE: 1998-09-02
/ PRIOR APPLICATION NUMBER: 60/098843
/ PRIOR FILING DATE: 1998-09-02
/ PRIOR APPLICATION NUMBER: 60/099536
/ PRIOR FILING DATE: 1998-09-09
/ PRIOR APPLICATION NUMBER: 60/099596
/ PRIOR FILING DATE: 1998-09-09
/ PRIOR APPLICATION NUMBER: 60/099598
/ PRIOR FILING DATE: 1998-09-09
/ Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 477
/ SEQ ID NO 76
/ LENGTH: 1989
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-012-064A-76
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Query Match 86.3%; Score 16.4; DB 3; Length 1989;  
Best Local Similarity 94.4%; Pred. No. 97;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATGTCCTCCCGG 19  
|||||  
DB 715 AATGTCATGTCCTCCCGG 732

## RESULT 9

US-09-552-322-1  
; Sequence 1, Application US/09552322  
; Patent No. 6436642  
; GENERAL INFORMATION:  
; APPLICANT: Gould-Rothberg  
; APPLICANT: Raselli  
; TITLE OF INVENTION: METHOD OF CLASSIFYING A THYROID CARCINOMA USING  
; FILE REFERENCE: 15966-548  
; CURRENT APPLICATION NUMBER: US/09/552,322  
; PRIOR FILING DATE: 2000-04-19  
; PRIOR APPLICATION NUMBER: 60/130,123  
; PRIOR FILING DATE: 1999-04-20  
; PRIOR APPLICATION NUMBER: 60/193,203  
; PRIOR FILING DATE: 2000-03-30  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2132  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-552-322-1

Query Match 86.3%; Score 16.4; DB 3; Length 2132;  
Best Local Similarity 94.4%; Pred. No. 98;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATGTCCTCCCGG 19  
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DB 844 AATGTCATGTCCTCCCGG 861

## RESULT 10

US-09-605-703B-2881/C  
; Sequence 2881, Application US/09605703B  
; Patent No. 6962988  
; GENERAL INFORMATION:  
; APPLICANT: Pompejus, Markus  
; APPLICANT: Krogger, Burkhard  
; APPLICANT: Schroder, Hartwig  
; APPLICANT: Zelder, Oskar  
; APPLICANT: Habehauer, Gregor  
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL  
; FILE REFERENCE: BGI-129CP  
; CURRENT APPLICATION NUMBER: US/09/605,703B  
; PRIOR FILING DATE: 2000-06-27  
; PRIOR APPLICATION NUMBER: 60/142,764  
; PRIOR FILING DATE: 1999-07-08  
; PRIOR APPLICATION NUMBER: 60/152,318  
; PRIOR FILING DATE: 1999-09-03  
; NUMBER OF SEQ ID NOS: 2934  
; SEQ ID NO 2881  
; LENGTH: 597  
; TYPE: DNA  
; ORGANISM: Corynebacterium glutamicum  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (101)..(574)  
; OTHER INFORMATION: RXA02751  
US-09-605-703B-2881

Query Match 81.1%; Score 15.4; DB 4; Length 597;

Best Local Similarity 94.1%; Pred. No. 2.8e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AATGTCATGTCCTCCCGG 18  
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DB 394 AATGTCATGTCCTCCCGG 378

## RESULT 11

US-09-949-016-136302  
; Sequence 136302, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE. METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 136302  
; LENGTH: 601  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-136302

Query Match 81.1%; Score 15.4; DB 3; Length 601;  
Best Local Similarity 94.1%; Pred. No. 2.8e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATGTCCTCCCGG 19  
|||||  
DB 61 ATGTCATGTCCTCCCGG 77

## RESULT 12

US-09-582-337-1/C  
; Sequence 1, Application US/09582337  
; Patent No. 6552618  
; GENERAL INFORMATION:  
; APPLICANT: Japan Tobacco, Inc.  
; TITLE OF INVENTION: Monoclonal Antibody Against Connective Tissue Growth Factor  
; FILE REFERENCE: JI-009PCT  
; CURRENT APPLICATION NUMBER: US/09/582,337  
; PRIOR FILING DATE: 2000-06-23  
; PRIOR APPLICATION NUMBER: JP P1997-367699  
; PRIOR FILING DATE: 1997-12-25  
; PRIOR APPLICATION NUMBER: JP P1998-356183  
; PRIOR FILING DATE: 1998-12-15  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2338  
; TYPE: DNA  
; ORGANISM: Rat  
; FEATURE:  
; NAME/KEY: 5'UTR  
; LOCATION: (1)..(212)  
; NAME/KEY: CDS  
; LOCATION: (213)..(1256)  
; NAME/KEY: 3'UTR  
; LOCATION: (1257)..(2338)  
; NAME/KEY: polyA signal  
; LOCATION: (2297)..(2302)  
US-09-582-337-1

Query Match 81.1%; Score 15.4; DB 3; Length 2338;  
Best Local Similarity 94.1%; Pred. No. 3.1e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATCGTCCCGGG 19  
|||||  
DB 1210 ATGTCATTGTCCCGGG 1194

RESULT 13  
US-09-187-478-1/c  
; Sequence 1, Application US/09187478  
; Patent No. 63483228  
; GENERAL INFORMATION:  
; APPLICANT: Schmidt, Brian F.  
; APPLICANT: Allen, Margaret L.  
; TITLE OF INVENTION: Connective Tissue Growth (CTGF) And Methods Of Use  
; FILE REFERENCE: 08766/004001  
; CURRENT APPLICATION NUMBER: US/09/187,478  
; PRIOR FILING DATE: 1998-11-06  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2350  
; TYPE: DNA  
; ORGANISM: No. 6348329mal Rate Kidney Fibroblast  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (212)..(1252)  
US-09-187-478-1

Query Match 81.1%; Score 15.4; DB 3; Length 2350;  
Best Local Similarity 94.1%; Pred. No. 3.1e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATCGTCCCGGG 19  
|||||  
DB 1209 ATGTCATTGTCCCGGG 1193

RESULT 14  
US-09-292-036-1/c  
; Sequence 1, Application US/09292036  
; Patent No. 6358741  
; GENERAL INFORMATION:  
; APPLICANT: FIBROGEN, INC  
; APPLICANT: SCHMIDT, Brian  
; APPLICANT: ALLEN, Margaret  
; APPLICANT: SVERDRUP, Fran  
; APPLICANT: CARMICHAEL, David  
; TITLE OF INVENTION: CONNECTIVE TISSUE GROWTH FACTOR (CTGF) AND METHODS OF USE  
; FILE REFERENCE: FIBRO1100-1  
; CURRENT APPLICATION NUMBER: US/09/292,036  
; PRIOR FILING DATE: 1999-04-14  
; PRIOR APPLICATION NUMBER: US 09/292,036  
; PRIOR FILING DATE: 1999-04-14  
; PRIOR APPLICATION NUMBER: US 09/187,478  
; PRIOR FILING DATE: 1998-11-06  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 1  
; LENGTH: 2350  
; TYPE: DNA  
; ORGANISM: Rat  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (212)..(1252)  
US-09-292-036-1

Query Match 81.1%; Score 15.4; DB 3; Length 2350;  
Best Local Similarity 94.1%; Pred. No. 3.1e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATCGTCCCGGG 19  
|||||  
DB 1209 ATGTCATTGTCCCGGG 1193

RESULT 15  
US-09-949-016-15571/c  
; Sequence 15571, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CI001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 15571  
; LENGTH: 51049  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-15571

Query Match 81.1%; Score 15.4; DB 3; Length 51049;  
Best Local Similarity 94.1%; Pred. No. 3.6e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 ATGTCATCGTCCCGGG 19  
|||||  
DB 13225 ATGTCATTGTCCCGGG 13209

Search completed: December 2, 2005, 23:43:52  
Job time : 6.25502 secs

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fold on right edge)



OY	260	ACCATGGGGA	CGATCTGTAG	AGCTGGTCTG	AGAGGAGATC	AGCAAC	CCGGGACTG	AGACA	313
Db	247	ACCAAGGGGA	CGATCGTAG	CGGACTG	AGAGGGTGA	TGGCACA	CTGGGACTG	AGACA	306
OY	320	CGGCGCGGACT	CTACCGGAGG	CACAGTGGGGA	TATTTGGA	CAATGAGGGA	CCCTGA	378	
Db	307	CGGCCAGACTC	CTACGGGAGG	CACAGTAGGGA	TCTTCGGA	TGATGGA	CCAAAGTCTGA	366	
OY	379	TCCAGCCAT	TGCCGCTGTGTGA	AGAGCCTTTGGT	TTAAGCACTTTA	AGCAGTGA	438		
Db	367	CGGAGCAAC	CGCGCCTG	AGTGTGA	AGGCTTTCCGGGT	CGTAAAC	CTCTGTGTTA	426	
OY	439	GAA	GACTCTTCCGTTA	TATATAC	CCGGGGAGA	CGATGACATTA	AGCTGACAAATTA	GCACCGGCT	497
Db	427	GAA	CAAGTGTCTAGT	TTGTAATAG	CTGGACCTTTAG	CGGTACTTA	CCAAAGAAC	CCAGCT	486
OY	498	AACTGTGTGC	AGCAGC	CGCGGTAATAC	AGAGGATGCA	AGCGTTAAT	CGAATTA	CTGGG	557
Db	487	AACTCGTGCC	AGCAGC	CGCGGTAATAC	AGTGTGGCA	AGCGTTAT	CCGGAATTA	TTGGG	546
OY	558	CGTAAGGGA	GAGGTAGTGGCT	GTATAGTCA	AGTGAATCCCCGGG	CTTAAC	CTGGG	617	
Db	547	CGTAAGGGA	GAGGTAGTGGCT	GTATAGTCA	AGTGAATCCCCGGG	CTTAAC	CTGGG	606	
OY	618	AACTGCAT	CTGAAACTGT	TAGGCTAG	AGTGTGAGGAGG	AGTGAATTTCA	GGTGAG	677	
Db	607	AGGTCAT	TGGAACTGGG	AGACTTGA	GTGAGCAGAA	AGAAAGTGA	ATTCA	GTGTAG	666
OY	678	CGGTAAAT	TGCTTA	AGATCTGA	AGGAATCCGAT	TGCGAGCAGC	ACTTCTGG	CACTAT	737
Db	667	CGGTAAAT	TGCTTA	AGATCTGA	AGGAATCCGAT	TGCGAGCAGC	ACTTCTGG	CACTAT	726
OY	738	ACTGACACT	GAGCTCGAA	AGCGGTGGTAG	CAAA	CAGGATTA	AGATACCTG	GTAGTCCAG	797
Db	727	ACTGACACT	GAGCGCCGA	AGCGTGGGAG	CAAA	AGGATTA	AGATACCTG	GTAGTCCAG	786
OY	798	GCCGTAAC	GCATGTCTA	CTAGTCTGT	GGGTCCTTTG	AGAGAC	TTAGTAG	CGACCTAACG	856
Db	787	GCCGTAAC	GCATGTCTA	CTAGTCTGT	GGGTCCTTTG	AGAGAGTTC	CTGAAGTTAACG	846	
OY	857	CAATTAAG	TAGACCGGCT	GGGGAGTAC	GGGCGCAG	AGTTAAAC	TAAATGA	ATTGAGCGG	916
Db	847	CATTAGCA	CTCCGCTGGG	AGTAGCGG	CGCAGAGCT	GAATCTAA	AGGAATTTGA	CGGG	906
OY	917	GGCCCGCA	CAAGCGGT	GAGCAGTGTGT	TATTA	TGATGCA	CGCGGA	AACTTACCTG	976
Db	907	GGCCCGCA	CAAGCGGT	GAGCAGTGTGT	TATTA	TGAGCA	CGCGGA	AACTTACCG	966
OY	977	GTCTTGA	CATACAGGA	TCTTTG	TAGATAC	AGAGTGCCTT	CGGGAA	TTGTGATACG	1036
Db	967	GTCTTGA	CATCTCTG	AAACCTTA	AGATAGAGCTT	CTCTT	CGGGAGC	AGAGTACG	1026
OY	1037	GTGCTGAC	TGCTGTCTG	ACAGCTCGT	TCGTAGATG	TGTTGGG	TTAATG	TCCGCAACGAGC	1096
Db	1027	GTGCTGAC	TGCTGTCTG	ACAGCTCGT	TCGTAGATG	TGTTGGG	TTAATG	TCCGCAACGAGC	1086
OY	1097	GCAACCC	TTTCTCTTA	GTATAC	AGCATTCCGGGT	GGAACCTTA	AGATCTG	CCCATGTA	1156
Db	1087	GCAACCC	TTTCTCTTA	GTATAC	AGCATTCCGGGT	GGAACCTTA	AGATCTG	CCCATGTA	1145
OY	1157	CAAACTG	AGAGGAGCGG	GGAAGATG	TCATAGG	CGCCCTTA	AGCA	CCAGGGCTTACA	1216
Db	1146	CAAACTG	AGAGGAGG	AGTGGGATG	AGCTCA	ATCATATGCC	CTTATAT	AGCTCGGGCTACA	1205
OY	1217	CACGTGTACA	TGGTAGGTAC	AGAGGAGCTAC	ACAGCGAT	GTGATG	CAATCTCAAA	1276	
Db	1206	CACGTGTACA	TGGTAGGTAC	AGAGGAGCTAC	ACAGCGAT	GTGATG	CAATCTCAAA	1265	
OY	1277	AAAGCTTA	TCTAGTCC	AGATTTGGAGT	CTGCACTG	CACTCCATG	AAATAGGA	ATCGCTAG	1336
Db	1266	AAAGCTT	CTCAGTTCG	AGATTTGGAGT	CTGCACTG	CACTCCATG	AAATAGGA	ATCGCTAG	1325

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QY 1337 TAAATCGGGATCACAATAAGCCGGCGGTGAATTCGTTCCCGGGGCTTGTAACAACCGCCGCTC 1338
Db 1326 TAAATCGGGATCACAATAAGCCGGCGGTGAATTCGTTCCCGGGGCTTGTAACAACCGCCGCTC 1385
QY 1397 ACACCATGGGAGTTGATTTGACCCAGAAAGTGTTAGCCTAAC--TTAGTGAAGGGCGATCAAC 1454
Db 1386 ACACCAAGAGATTTGTTAACACCCGAAGTCGGTGGGTTAACCTTTATGAGACGACCGCC 1445
QY 1455 CACGGTGTGTCGATGACTGGGGTGAAGTCGTAAACAAGTAGCCGTAGGGGAACCTGCGG 1514
Db 1446 TAAAGTGGGAACAGATGATTGGGGTGAAGTCGTAAACAAGTAGCCGTATCGGAAGTGCGG 1505
QY 1515 CTGATCA 1522
Db 1506 CTGATCA 1513

RESULT 2
US-10-793-568A-42
; Sequence 42, Application US/10793568A
; Publication No. US20050250192A1
; GENERAL INFORMATION:
; APPLICANT: Shannugam, Keelinathan T.
; APPLICANT: Ingram, Lonnie O'Neal
; APPLICANT: Patel, Miliind A.
; APPLICANT: Ou, Mark S.
; APPLICANT: Habbrucker, Roberta
; TITLE OF INVENTION: Production of Chemicals From Lignocellulose
; FILE REFERENCE: UF-410
; CURRENT APPLICATION NUMBER: US/10/793,568A
; CURRENT FILING DATE: 2004-03-04
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 42
; LENGTH: 1548
; TYPE: DNA
; ORGANISM: Bacillus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(1548)
; OTHER INFORMATION: Bacillus isolate P4-102B
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1548)
; FEATURE:
; NAME/KEY: NAME/KEY: misc feature
; LOCATION: (1)_1(1548)
; OTHER INFORMATION: 1548 bp DNA fragment encoding 16S rRNA molecule
US-10-793-568A-42

Query Match 55.6%; Score 848.2; DB 6; Length 1548;
Best Local Similarity 75.6%; Pred. No. 1.8e-264;
Matches 1145; Conservative 0; Mismatches 351; Indels 18; Gaps 7;

QY 30 GGGCGGAGGCTTAACACATGCACTGAGCGGAAACGATGATAGCTTGTATTAGGCGTC 89
Db 30 GGGCGGCGCTTAATACATGCAAGTCGTGCGGACCTTTTAAAGCTTGCTTTTAAAGGT 89
QY 90 GAGCGCGCGGACGGGTGATGTAATCTTAGAATTTACTAGTAGTGGGGATAGACTCGGG 149
Db 90 TAGGGGCGGACGGGTGAGTAACAACGTGGGTAACTGCTCTTAAATCGGGATTAACGCCGG 149
QY 150 GAAATCGAATTAATACCGCAT-----CGTCAAGGGGAAAGCAGGGGATCAT 199
Db 150 GAAACCGGGGCTAATACCGGATAGTTTTCCTTCGATGAGGAAAGGAAAGACGGC 209
QY 200 TAGACTTTGGCTATTAGATGAGCGCTTAAGTCGATTTAGCTAGATGTGGGTTAAAGCCT 259
Db 210 TTGGGCTGTACTTACAGATAGGAGCGCGCGGCGCATTTAGCTAGTTGTTGGGTATAGCTC 269
QY 260 ACCATGGCGAAGATCTTAGCTGTCTGAAGAGATGATCAACCAACCGGAGCTGAGACA 319
Db 270 ACCAAGGCAACGATGCTAGCCGACCTGAGAGGGGTGATTCGGCCCATTTGGGACTGAGACA 329

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Oy	320	CGGCCCCGAGACT-CTACGGGAGAGGACGACGTGGGGAATATTGGAACAATGAGNAGAAACCTCGA	378
Db	330	CGGCCCCAAACTCTTACCGGAGGACGACGTAGGGAATCTTCCGCATATGAGCGAAAGTTGTGA	389
Oy	379	TCCAGCCATGCGCGGTGTGTGAAAGAAAGGCTTTTGTGTGTAAGCACTTTAAGCAGTGAA	438
Db	390	CGGAGCAACGCGCGGTGTGTGAAGAGGCTTTGGGGTGTGTAATCTGTGTTCCCGGGAA	449
Oy	439	GAAAGCTCTTGGGT-TAATTACCCGGGACGATGACATTAGCTGCAGAAATTAAGCACCGGCT	497
Db	450	GAAACAAGTGCCTGTGCAATAGGGGCGGCGCTTTCGATACCCGGCCAGAAAGCAACGGCT	509
Oy	498	AACCTGTGGCAGGACGCGCGGTATATCAGAGGGGTCGAAGCGTTAATTCGAAATTACCTGAGG	557
Db	510	AACTAAGTGCAGACGCGCGGTATATAGTAGGTGGCAAGCGTTGTCTCGGAATTAATTGGG	569
Oy	558	CGTAAAGCGAGCGTAGGTGGCTTGATTAAGTGAATGCGAATCCCGGGCTTAACTGGG	617
Db	570	CGTAAAGCGCGCGAGGCGGCTTCTTAAGTCTGATGTGAATCTTGGCGGCTCAACCGCAA	629
Oy	618	AACATCATCTGAAACTGTTAGGCTTAGAGTAGGTAGAGAGGAAAGTAATTTACAGGTAG	677
Db	630	GTGTGCAATTGGAAACTGGGAGGCTTAGGTGAGAGAGAGAGAGTAATTCACAGTATAG	689
Oy	678	CGGTGAATTTGGGTAGAGATCTGAAGAAATACGATGGGAGGAGAGCTCTCGGCATCAT	737
Db	690	CGGTGAATTTGGGTAGAGATGTGTGAGGAAACACAGATGGGAGAGGCGGCTCTCTGTCTGTA	749
Oy	738	ACTGACACTGAGGCTCGAAAGCGTGGGTAGCAAAACAGGATTAGTACCTTGCTGTATGTCAC	797
Db	750	ACTGACGCTGAGGCGCGAAACGTTGGGAGCAAAACAGGATTAGTATCCCTGTGTGTCCAC	809
Oy	798	GCCGTAAACGATGTCTACTAGTCTGTGGGTCCCTTAGAGGAC-TTAGTAGCAGCACTAACG	856
Db	810	GCCGTAAACGATGTCTAGTCTTAGGTTAGAGGCTTTCCGCCCTTAGTGTGTGCACTTAACG	869
Oy	857	CAATTAAGTAGACCGGCTTGGGAGTAGACCGCCGCAAGTTTAAACTCAATGATTTGACGGG	916
Db	870	CATTAAAGCACTCCGCTTGGGAGTAGACCGCCGCAAGGCTGAATCTCAAGAAATTGACGGG	929
Oy	917	GCGCCGCAACAAGCGGTGAGCATGTGGTTTAATTCGATGCAACGCGAAGAACCTTACTCTG	976
Db	930	GCGCCGCAACAAGCGGTGAGCATGTGGTTTAATTCGAGCAACGCGAAGAACCTTACTCAG	989
Oy	977	GCTTTGAATATACACGAATCTTTGTAGAGATACGAGAGTGGC--TTCCGGAAATTGTGATAC	1034
Db	990	GTTCTTGAATCTCTCTGACCTCCCTGTAGACAGAGGCGCTTCCCTTCCGGGGACAGAGTGAC	1049
Oy	1035	AGGTGCTCATGAGCTGTGCTGACGCTCGTGTGCTGAGATGTTGGGTTAAGTCCGCAACA	1094
Db	1050	AGGTGCTCATGAGTGTGCTGACGCTCGTGTGCTGAGATGTTGGGTTAAGTCCGCAACA	1109
Oy	1095	GCGCAACCTTGTCTTATGTTAACAGACACTTCGGGTGGGAACTCTAAGAGATACGTCCAGT	1154
Db	1110	GCGCAACCTTGTACTTATGTTGCCAGCA-TTCAAGTTGGCACTCTAAGAGATACGTCCAGT	1168
Oy	1155	GACAAATCTGAGAGAGCGGGGACGACCTCAAGCTCATATGAGCCCTTACGACAGGGCTA	1214
Db	1169	GACAAATCTGAGAGAGGTGGGGATGACGTCAAAATCATATGACCCCTTATGACCTGGGGTA	1228
Oy	1215	CACACGTGCTACAAATGTATAGTTACAGAGGGCAGCTTACACAGCATGTGATGCGAATCTCA	1274
Db	1229	CACAGTGTCTCAAAATGTATGTTACAAAGGGCTGCAGAGCCGCGAGTTTAACTCAATCCCA	1288
Oy	1275	AAAGACTATCGTATGCTCAGATTTGGAAGTCTGCAATCTGCATCTCAATGAAGTAGAATCGCT	1334
Db	1289	GAAAACCAATTCAGATTGCGATGTGAGGCTGCAGACCCGCTGTGATGAAGCGGAATCGCT	1348
Oy	1335	AGTAATCGCGATCAGAATGCGCGCGTGAATACGTTCCCGGGCTTGTACACACCGCGCG	1394
Db	1349	AGTAATCGCGATCAGAATGCGCGCGTGAATACGTTCCCGGGCTTGTGTACACACCGCGCG	1408

Query	Match	55.5%	Score 847.6	DB 7	Length 1486
Db	1335	TCACACCATGGAGAGTTGATTGACACCGAAGTCGTTAGCCTAAC--TTAGTGAGGGCCATC	1452		
Db	1409	TCACACCAAGAGAGTTGTTAAACACCGAAGTCGTTAGAGTAACCTTTACGAGCCAGCCG	1468		
Qy	1453	ACCACGAGTGTGTGATGACTGGGAGTGAAGTCGTAACAAGTACCGCTAGGGGAACCTGC	1512		
Db	1469	CCGAGGTGTGGACACAGATGATTTGGGGTGAAGTCTTAACAAGTACCGCTATCGAAGGTGC	1528		
Qy	1513	GGCTGGATCCTC	1526		
Db	1529	GGCTGGATCCTC	1542		
RESULT 3					
US-11-055-637-69					
Sequence 69, Application US/11055637					
Publication No. US20050260619A1					
GENERAL INFORMATION:					
APPLICANT: BROUSSEAU, Roland					
APPLICANT: DUBOIS, Jason					
APPLICANT: EDGE, Tom					
APPLICANT: MASSON, Luc					
APPLICANT: TREVORS, Jack T.					
TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND					
TITLE OF INVENTION: CHARACTERIZATION OF MICROORGANISMS IN MICROBIAL COMMUNITIES					
FILE REFERENCE: 2139-33US					
CURRENT APPLICATION NUMBER: US/11/055,637					
CURRENT FILING DATE: 2005-02-11					
PRIOR APPLICATION NUMBER: US 60/543,288					
PRIOR FILING DATE: 2004-02-11					
NUMBER OF SEQ ID NOS: 114					
SOFTWARE: FastSeq for Windows Version 4.0					
SEQ ID NO 69					
LENGTH: 1486					
TYPE: DNA					
ORGANISM: Artificial Sequence					
FEATURE:					
OTHER INFORMATION: Probe for DNA array					
US-11-055-637-69					
Query Match	55.5%	Score 847.6	DB 7	Length 1486	
Best Local Similarity	76.1%	Pred. No. 2: ee-264			
Matches 1124	Conservative	0	Mismatches 317	Indels 16	Gaps 6
Qy	30	GGCGGAGGCTTAAACACATGATGAGTCGAGCGGAACGATGATGCTTATAGGCGTC	89		
Db	11	GGCGGAGGCTTAAACACATGATGAGTCGAGCGGAACGATGATGCTTATAGGCGTC	70		
Qy	90	GAGCAGCGGAGGAGTGAAGTAACTTGAATCTTACCTTGAAGTGGGGGATGAGTCGGG	149		
Db	71	TAGCGGCGGAGGAGTGAAGTAAACAGTGGTGAACCTGCTTAAAGTGAATCTCGG	130		
Qy	150	GAAACTCGAATTAATACCGCAT-----ACGTTACGGGGAAGACGAGGAGTCAAT	199		
Db	131	GAAACCGGGGCTTAATACCGGATTAATTTGAACCGGATGTTGAAATTGAAGCGGAC	190		
Qy	200	TAGACCTTGGCGCTTATAGATGAGCTTAATGCGATTAATGATGATGATGATGATGATGAT	259		
Db	191	TTGCGCTTGAATCTTATAGATGAGACCGCGCTGCTTAATGATGATGATGATGATGATGAT	250		
Qy	260	ACCATGCGACGATCTGTAGCTGCTGTGAGAGATGATCAAGCCACACCGGAGCTGAGCA	319		
Db	251	ACCAAGGCAACGATGAGTGAAGCGGAGCTGAGAGGATGATGAGGCACTGAGGAGTGA	310		
Qy	320	CGGCGCGGACT--CTACGGGAGGAGCAGATGAGGAAATTGGACAAATGAGGGAACCTGA	378		
Db	311	CGGCGCGGACTCTTAAGGAGGAGCAGATGAGGAAATTTCCGATGAGCAGAAAGTCTGA	370		
Qy	379	TCCAGCCATGCGCGCTGTGTGAAGAGAGGCTTTGCTTGAACCACTTTAAGAGAGTGA	438		
Db	371	CGAGGCAACGCGCGCTGTGTGAAGAGGCTTTGCGGCTGCTTAACCTCTGTTTGAAGGAA	430		
Qy	439	GAA-GACTCTTCGTTAATACCCGGGAGGATGACATTAAGTCGAGATTAACACCGGCT	497		

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Db 431 GAAACAAGTCTGTTGAATAGCTGGCACTTGACCGTACCTTAACCCAGAAACCAACGGCT 490
Qy 498 AACTGTGTCGACGACGCGCGGTAAATACAGAGGTGCAAGCGTTAATCGAATTTCTGGG 557
Db 491 AACTGACGTGTCGACGACGCGGTAAATACAGAGGTGCAAGCGTTAATCGAATTTCTGGG 550
Qy 558 CGTAAAGCGAGCGTGTGCTTGAATTAAGTCAAGTGTGAATCCCGGCGCTTAACCTGGG 617
Db 551 CGTAAAGCGCGGCGAGGTGTTCTTAAGTCAAGTGTGAATCCCGGCGCTTAACCTGGG 610
Qy 618 AACTGATTTGAACTGTTAGCTTGAAGTGAAGGGAAGTGAATTTGAGGTGAG 677
Db 611 AGGGTCATTTGAACTGGAAGAGAGCTTGAGGAGAAAGAGAAATTCATGTGTAG 670
Qy 678 CGGTAAATGCGTGAATCTGAAGGAATACCGATGCGGAGCGAAGCGAGCTTCCGCGATCAT 737
Db 671 CGGTAAATGCGTGAATCTGAAGGAATACCGATGCGGAGCGAAGCGAGCTTCCGCGTGTGA 730
Qy 738 ACTGACACTGAGGCTGCAAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTGATGTCAC 797
Db 731 ACTGACACTGAGGCGGGAAGAGCGTGGGAGCAAAACAGATTAGATACCTGTGATGTCAC 790
Qy 798 GCGGTAAACGATGTCTACTAGTCTGTGGGTCCCTTGAGGAGC-TTATGACGCGAGCTTAACG 856
Db 791 GCGGTAAACGATGTAGTGTAGGAGGTTCCGCGCTTGTAGTGTGAACTTAACG 850
Qy 857 CAATTAAGTAGACCGGCTGGGAGTACCGGCGCAAGGTTAAACTCAAAATGAATTAACCGG 916
Db 851 CAATTAAGTAGACCTCGGCTGGGAGTACCGGCGCAAGGTTAAACTCAAAAGAAATTAACCGG 910
Qy 917 GCGCGCGCAACAGCGGTGAGCACTGTGTTTAATTCGATGCAACGCGAAGAACTTAACCTG 976
Db 911 GCGCGCGCAACAGCGGTGAGCACTGTGTTTAATTCGATGCAACGCGAAGAACTTAACCGG 970
Qy 977 GTCTTGACATACACAGAACTTGTGAGATACGAGAGTCCCTTGCGGAATTTGTATACG 1036
Db 971 GTCTTGACATCTCTGAAAAACCTTAGAGATAGGCGCTTCTCTTGCGGAGACAGATGACAG 1030
Qy 1037 GTGCTGATGCTGTCGTCAGTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1096
Db 1031 GTGCTGATGCTGTCGTCAGTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1090
Qy 1097 GCAACCTTGTCTTGTAGTTACAGCACTTCGGGTGGAACTTAAGSATACTGCCAGTGA 1156
Db 1091 GCAACCTTGTATCTTGTAGTTACATCA-TTAAATTGGGCACTTAAGSATACTGCCAGTGA 1149
Qy 1157 CAAACTGAGAGAGCGCGGAGCAGACGTCAAGTCATCATGCGCCCTTAACGACGAGGCTTACA 1216
Db 1150 CAAACCGGAGAGAGGTGGGAGTAGACGTCAAAATCATCATGCCCTTATGACCTGGGCTACA 1209
Qy 1217 CACGTGCTACAAATGTGATGATACAGAGGAGCTACACAGCGATGTGAGCGCAATCTCAA 1276
Db 1210 CACGTGCTACAAATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1269
Qy 1277 AAGCTTATCGTATGTCAGATTGAGTGTGCACTGCACTCAATGAGTGAATGCGTAG 1336
Db 1270 AAGCTTATCGTATGTCAGATTGAGTGTGCACTGCACTCAATGAGTGAATGCGTAG 1329
Qy 1337 TAATGCGGATCAGAAATGCGCGGTGAATACGTTCCCGGCGCTTGTACACACGCGCGTC 1396
Db 1330 TAATGCGGATCAGATGCGCGGTGAATACGTTCCCGGCGCTTGTACACACGCGCGTC 1389
Qy 1397 ACACATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1454
Db 1390 ACACATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1449
Qy 1455 CACGCTGTGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1491
Db 1450 TAGGTTGGAGACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1486
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RESULT 4

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US-10-793-568A-40
; Sequence 40, Application US/10793568A
; Publication No. US20050250192A1
; GENERAL INFORMATION:
; APPLICANT: Shammugam, Keelnathan T.
; APPLICANT: Ingram, Lonnie O'Neal
; APPLICANT: Patel, Milind A.
; APPLICANT: Ou, Mark S.
; APPLICANT: Hardnaker, Roberta
; TITLE OF INVENTION: Production of Chemicals from Lignocellulose
; FILE REFERENCE: US-410
; CURRENT APPLICATION NUMBER: US/10/793,568A
; CURRENT FILING DATE: 2004-03-04
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 40
; LENGTH: 1549
; TYPE: DNA
; ORGANISM: Bacillus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(1549)
; OTHER INFORMATION: 1549 bp DNA fragment encoding 168 rRNA molecule
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(1549)
; OTHER INFORMATION: Bacillus isolate 17C5
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (216)-(216)
; OTHER INFORMATION: y = t or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (217)-(217)
; OTHER INFORMATION: K = g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (254)-(254)
; OTHER INFORMATION: w = a or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (268)-(268)
; OTHER INFORMATION: y = t or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1461)-(1461)
; OTHER INFORMATION: y = t or c
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1535)-(1535)
; OTHER INFORMATION: y = t or c
US-10-793-568A-40

Query Match 55.4%; Score 845.4; DB 6; Length 1549;
Best Local Similarity 75.4%; Pred. No. 1.5e-263;
Matches 1141; Conservative 3; Mismatches 352; Indels 18; Gaps 7;

Qy 30 GCGGCGAGCTTAAACATGCAAGTCGAGCGGAAACGATGATGCTTGTGATGAGCGTC 89
Db 34 GCGGCGGCTTAAATACATGCAAGTCGAGCGGAAACGATGATGCTTGTGATGAGCGTC 93
Qy 90 GAGGCGCGGAGCGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 149
Db 94 TAGCGCGGAGCGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 153
Qy 150 GAAACTCGAATTAATACCGCATAT-----CGTCTACGCGAGAAACGAGGCGATCAT 199
Db 154 GAAACCGGCGGCTTAAATACCGCATATGTTTTCCTCGCATGAGGAGAAAGAAAGACGCGC 213
Qy 200 TAGACCTTGCGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 259
Db 214 TTYGCTGTCACTTAACAGATGAGCGCGCGCGCATTAAGCTAGTGTGAGGATTAAGGCTC 273
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260 ACCATGGGAGCATCTGTAGTGTCTGAGAGGATGATCAGCCAGACCGGAGCTGAGACA 319  
274 ACCAAGGAGCAATGCGTATGCGACTGAGAGGATGATGCGCACTTGGAGCTGAGACA 333  
320 CGGCCCCGAGCT-CTACGGGAGGAGCAGTGGGGAAATATTGACAATGNGGGAAACCTTGA 378  
334 CGGCCCCAACTCTTACGGGAGGAGCAGTGGGAAATCTTCCGCAATGAGCAAAAGTCTGA 393  
379 TCACAGCATGCGCGGTGTGTGAAAGAGCCCTTTGGTTGTAAAGCATTAAAGCTGAA 438  
394 CGGAGCAACGCGCGGTGAGTGAAGAGGCTTCCGGTCTGTAATAACTCTTTCGCGGGGAA 453  
439 GAAAGCTCTTGGGT-TAATACCGGGAGAGATGACATTAGCTGCGAGAAATAGACCGGCT 497  
454 GAAACAAGTGCCTTTCGAAACAGGCGGCGCTTGAACGATACCGGCGAAGAACAGCGGCT 513  
498 AACTGTGTGCGAGACCGCGGTAAATACAGAGGGGTCAAGCGTTAATCGGAAATTACTGGG 557  
514 AACTAGTGTCCAGACACCGCGGTAAATACGATGTCGCAAGCGTTGTCGGAATTAATTGGG 573  
558 CGTAAAGCAGCGGTAGTGGCTTGAATAGTCAGATGTGAATCCCGGCTTAACCTGGG 617  
574 CGTAAAGCAGCGGTAGTGGCTTGAATAGTCAGATGTGAATCCCGGCTTAACCTGGG 633  
618 AACTGATCTGAACTGTGTTAGTGTAGATGAGTGAAGGAGGAGTGAATTTTCAAGGTGAG 677  
634 GCGGTATTGGAACCTGGAGGCTTGAATGTCAGAAAGAGAGTGAATTTCCAGGTGAG 693  
678 CGGTGAATGCGGTAGATCTGAAAGGATACGATGGCGAGGAGCCTTCTGCGATCAT 737  
694 CGGTGAATGCGGTAGATCTGAAAGGATACGATGGCGAGGAGCCTTCTGCGATCAT 753  
738 ACTGACACTGAGGCTGGAAGCGTGGGTAGCAAAAGATTTAGATACCTGTGATGTCAC 797  
754 ACTGACGCTGAGGCGGGAAGCGTGGGTAGCAAAAGATTTAGATACCTGTGATGTCAC 813  
798 GCGGTAAAGGATGTCTACTAGTGTGGTCCCTTGAAGAC-TTACTGACGCGATTAAG 856  
814 GCGGTAAAGGATGTCTACTAGTGTGGTCCCTTGAAGAC-TTACTGACGCGATTAAG 873  
857 CAATAGTGAACCGCTGGGAGATACGCGCGCAAGGTTAAATCTCAATATGATGACGGG 916  
874 CATTAAGCACTCGGCTGGGAGATACGCGCGCAAGGTTAAATCTCAATATGATGACGGG 933  
917 GCGCGCACAAAGCGGTGAGCATGTGGTTAATTGATGCAACGCGAAGAACTTACCTG 976  
934 GCGCGCACAAAGCGGTGAGCATGTGGTTAATTGATGCAACGCGAAGAACTTACCTG 993  
977 GTCTTGAATACACAGAACTTTGTAGATACAGAGATGCC-TTCCGGAATTTGTATAC 1034  
994 GTCTTGAATACACAGAACTTTGTAGATACAGAGATGCC-TTCCGGAATTTGTATAC 1053  
1035 AGGTGTCGATGTCGTGTCAGCTGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTC 1094  
1054 AGGTGTCGATGTCGTGTCAGCTGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTC 1113  
1095 GCGCAACCTTGTCTTGTAGTACAGCACTTCCGCGTGGAACTTAAAGATATCTGCCAGT 1154  
1114 GCGCAACCTTGTCTTGTAGTACAGCACTTCCGCGTGGAACTTAAAGATATCTGCCAGT 1172  
1155 GACAAACTGAGAGAGCGGCGGAGCAGCTCATCATATGCGCTTAAGCAACGAGGCTTA 1214  
1173 GACAAACTGAGAGAGCGGCGGAGCAGCTCATCATATGCGCTTAAGCAACGAGGCTTA 1232  
1215 CACACGTCATCAATGTTAGTACAGAGGAGCTACAGAGCAATGATGCGAATCTCA 1274  
1233 CACACGTCATCAATGTTAGTACAGAGGAGCTACAGAGCAATGATGCGAATCTCA 1292  
1275 AAAAGCTATCTGATGTCAGATTTGAGTCTGCACTGCACTCCATGAAAGTGAATGCT 1334  
1293 GAAAGCAATTTCCAGTTCCGATTTGCAAGCTGCAACCGGCTGCAATGAAGCGGAATGCT 1352  
1335 AGTAATCGCGGATCAAGATGCGCGGTGAATACGTTCCGCGGCTTGTACACACCGCGG 1394

1353 AGTAATCGCGGATCAAGATGCGCGGTGAATACGTTCCGCGGCTTGTACACACCGCGG 1412  
1395 TCACACCATGAGAGTGTATGACACCAAGATGTTAGCTAAC-TTATGAGGGGAGATC 1452  
1413 TCACACCAACGAGAGTGTATGACACCAAGATGTTAGCTAAC-TTATGAGGGGAGATC 1472  
1453 ACCAGGTGTGTGATGATGATGAGTGGGAGAGTGTAAAGAGTGGTGGGAACTGTC 1512  
1473 CCGAAGGTGTGTGATGATGAGTGGGAGAGTGTAAAGAGTGGTGGGAACTGTC 1532  
1513 GCGTGGATCACTTC 1526  
1533 GGTGATCACTTC 1546

RESULT 5  
US-10-793-568a-41  
Sequence 41, Application US/10793568A  
Publication No. US20050250192A1  
GENERAL INFORMATION:  
APPLICANT: Shannugam, Keelnathan T.  
APPLICANT: Ingram, Lonnie O'Neal  
APPLICANT: Patel, Milind A.  
APPLICANT: Ou, Mark S.  
APPLICANT: Harbucker, Roberta  
TITLE OF INVENTION: Production of Chemicals From Lignocellulose  
FILE REFERENCE: US-410  
CURRENT APPLICATION NUMBER: US/10/793,568A  
CURRENT FILING DATE: 2004-03-04  
NUMBER OF SEQ ID NOS: 44  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 41  
LENGTH: 1548  
TYPE: DNA  
ORGANISM: Bacillus  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (1)-(1548)  
OTHER INFORMATION: 1548 bp DNA fragment encoding 16S rRNA molecule  
NAME/KEY: misc feature  
LOCATION: (1)-(1548)  
OTHER INFORMATION: Bacillus isolate 36D1  
US-10-793-568a-41

Query Match 55.2%; Score 841.8; DB 6; Length 1548;  
Best Local Similarity 75.4%; Pred. No. 2.1e-262;  
Matches 1141; Conservative 0; Mismatches 355; Indels 18; Gaps 7;

30 GCGCGAGGCTTAACATGCAATGCAAGTGCAGCGGAAAGATGATAGCTTGTCTAATAGCGTTC 89  
30 GCGCGAGGCTTAACATGCAATGCAAGTGCAGCGGAAAGATGATAGCTTGTCTAATAGCGTTC 89  
90 GACGCGCGGAGCGGCGGAGTGAATACCTTAAAGATCTAAGTGTGGGAGTGTAGCTCGG 149  
90 TACGCGCGGAGCGGCGGAGTGAATACCTTAAAGATCTAAGTGTGGGAGTGTAGCTCGG 149  
150 GAACTCGAATTAATACCGCAT------CGTCTACGAGGAGAAAGCAGGAGTTCAT 199  
150 GAACTCGAATTAATACCGCAT------CGTCTACGAGGAGAAAGCAGGAGTTCAT 199  
200 TAGACCTTGGCTAATTAATAGTACCTTAAGTTCGATTAAGTGTGGGAGTGTAGCTCGG 259  
210 TTTTGTGTCATCTTAAGATGAGTGGGCGCGCGGATTAAGTGTGGGAGTGTAGCTCGG 269  
260 ACCATGGGAGCATCTGTAGTGTGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTCGTGTC 319  
270 ACCAAGGAGCAATGCGTATGCGACTGAGAGGATGATGCGCACTTGGAGCTGAGACA 329  
320 CGGCCCCGAGCT-CTACGGGAGGAGCAGTGGGGAAATATTGACAATGNGGGAAACCTTGA 378  
330 CGGCCCCAACTCTTACGGGAGGAGCAGTGGGAAATCTTCCGCAATGAGCAAAAGTCTGA 389

QY	3739	CCCAAGCANTGCGCGTGTGAAAGAGCCCTTTGTTGTAAGCACTTTAAACAGTGA	438
Db	330	CGGAGCAACGCGCGGTGATGAAAGAGCCCTTCGGGTCGTAAACCTCTGTCCGGGGAA	449
QY	439	GAAGA CTCTTCGT -TTAATACCGGGAGAGATGACATTAAGCTGCAGATATGACCGGCT	497
Db	450	GAACAAGTCCGTTCGAA CAGGGCGGCGCTTGACGATACCGGCAAGAAAGCACGGCT	509
QY	498	AACTCTGTCCAGCAGACCCCGGTAAATACAGAGGATCGAAGCTTAATCGAATTACTGGG	557
Db	510	AACTACGTCCAGCAGACCCCGGTAAATACGTAAGATGCAAGCGTGTCCGGAATTAATGGG	569
QY	558	CGTAAGCGAGCGTAGTGGCTTGATAAGTCAGATGTGAAATCCCGGGGCTTAACTGGG	617
Db	570	CGTAAGCGCGGAGCGCGGTTCTTAATGTCTGATGTGAAATCTTCGGCTCAACGGCA	629
QY	618	AACTGCATCTGAACCTGTTAGGCTAGAGTAGAGAGGAGTAGAATTCAGGTGAG	677
Db	630	GCGGTATCTGGAAACTGGGGGGCTTGAAGTCAGAAAGAGAGTAGAATTCACGCTGAG	689
QY	678	CGGTAAATGGCTAGAGATCTGAAGGAATACGATGGCGAAGGCACTTCCTGGCAATCAT	757
Db	680	CGGTAAATGCGTAGAGATGTGAGGAACACAGTGGCGAAGCGGCTCTTGCTCTGTA	749
QY	738	ACTGACACTGAGGCTCGAAGCGTGGGTAGCAAA CAGATTAGATA CCTGTAGTCCAC	797
Db	750	ACTGACGCTGAGGCGCGAAGCGTGGGAGCAAA CAGATTAGATACCTCGTAGTCCAC	809
QY	798	GCCGTAAACGATGTCTACTATGCTGTGGGCTCCTTAGAAC -TTAGTGACGACGCTAACG	856
Db	810	GCGGTAAACGATGAGTGTCTAAGTGTTAAGAGGGTTTCGCGCTTATGTGCGACGCTAACG	869
QY	857	CAATTAAGTAGACCGCTGGGGAGTAGACGCGCAAGGTTAAACTCAATTAATTGACGGG	916
Db	870	CATTAGACATCCGCTGGGGAGTAGACGCGCAAGGCTGAATCTCAAGGAATTAAGCGG	929
QY	917	GGCCCGCACAGCGGTGAGCATGTGTTTAATTGATGCAACGCGAAGAACTTAACCTTG	976
Db	930	GGCCCGCACAGCGGTGAGCATGTGTTTAATTGAAAGCAAGCAAGAACTTAACGAG	989
QY	977	GCTTGAACA TACAGAAATCTTGTAAGATPACGAGTGGC -TTGGGGAATGTGATAC	103
Db	990	GCTTGAACA TCTCTGACCTCCCTGGAGACAGGGGCTTCCCTTCGGGGGACAGAGTAC	104
QY	1035	AGGTGCTGATGGCTGTCTGACAGCTGATGCTGAGATGTGGTTAAGTCCCGCAACGA	109
Db	1050	AGGTGATGATGGTTGTGCTGACGCTGTGTGCGTAATGTGGGTTAAGTCCCGCAACGA	110
QY	1095	GGGCAACCTTGTCTTAACTTACAGACCTTCGGGTGGGAATCTTAAGATATCTGCCAGT	115
Db	1110	GGGCAACCTTGAACCTTAACTTATGTCACACA -TTCAAGTTGGGACCTTAAGGATCTGCCGCT	116
QY	1155	GACAAATCGAGGAAGGCGGGGACGACGTCAGATCATATGCGCTTACGACCAAGGACTA	121
Db	1169	GACAAATCGAGGAAGGATGGGATGACGTCAGATCATATGATGCCCTTAATGACCTGGGCTA	122
QY	1215	CACACGTGCTACATGTGTAAGTACAGAGGGCAGCTACACAGCGATGTGATCGAATCTCA	127
Db	1229	CACACGTGCTACATGTGTAAGTACAAAGGGCTGCGAGACCGCGAAGGTTAAGCAATCCCA	128
QY	1275	AAAACGCTATCGTAGTCCAGATTTGAGATCTGCAACTCGACTCCATTAAGTAGAATCGCT	133
Db	1289	GAHAACCATTTCCAGTTCGGAATTCGACGGCTGCAACCGGCTGTGATBAAGCGGAATCGCT	134
QY	1335	AGTAATCGCGATTCAGAAATGCGCGGTGATAATGTTCCGGGCTTGTA CACACCCCG	139
Db	1349	AGTAATCGCGATTCAGCAATGCCGCGGTGATAATGTTCCGGGCTTGTA CACACCCCG	140
QY	1385	TCACACCATGGGATGATGATGCAACAGAAAGTGTAACTTAAC -TTAGTAGAGGCGATC	145
Db	1409	TCACACCATGGAAGTTGATGATGCAACAGAAAGTGTAACTTTAATCGAAGCAGCGG	146

QY	1453	ACACACGGTGGGTCGATGACCTGGGGGGAAGTGTAAACAAGGTAAGCCGTGGGGAAACCTTC	1512
DB	1469	CCGAAGTGGGACAGATGATTTGGGGTGAAGTCTTAACAAGGTAGCCGTATCGAAAGGTTC	1528
QY	1513	GGCTGATCACTTC	1526
DB	1529	GGCTGATCACTTC	1542
RESULT 6			
US-11-055-637-78			
Sequence 78, Application US/11055637			
Publication No. US2005026019A1			
GENERAL INFORMATION:			
APPLICANT: BROUSSEAU, Roland			
APPLICANT: DOBOIS, Jason			
APPLICANT: EDGE, Tom			
APPLICANT: MASSON, Luc			
APPLICANT: TREVORS, Jack T.			
TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND			
FILE REFERENCE: 2139-3305			
CURRENT APPLICATION NUMBER: US/11/055,637			
CURRENT FILING DATE: 2005-02-11			
PRIORITY APPLICATION NUMBER: US 60/543,288			
PRIORITY FILING DATE: 2004-02-11			
NUMBER OF SEQ ID NOS: 114			
SOFTWARE: FastSeq for Windows Version 4.0			
SEQ ID NO 78			
LENGTH: 1507			
TYPE: DNA			
ORGANISM: Artificial Sequence			
FEATURES:			
OTHER INFORMATION: Probe for DNA array			
US-11-055-637-78			
Query Match			
55.1%; Score 840.4; DB 7; Length 1507;			
Beic Local Similarity 77.1%; Pred. No. 6e-262;			
Matches 114; Conservative 0; Mismatches 313; Indels 17; Gaps 7;			
QY	95	GCCGACGGGTGATGATTAAGTCTAGG-ATCTACCTGTAGTGGGGGATAGCTCGGGGAAA	153
DB	65	GGCGACGGGTGATGATTAAGTCTAGG-ATCTACCTGTAGTGGGGGATAGCTCGGGGAAA	124
QY	154	CTCGAATTAATACCGGATACGTCCTACGGGAGAAAGCGGGGATCATTAAG------	203
DB	125	CCGAGATTAATACCGGATACGTCCTACGGGAGAAAGCGGGGATCATTAAG------	184
QY	204	CCCTTGGCTATTGATGAGCTTAAGTCTAGG-ATCTACCTGTAGTGGGGGATAGCTCGGGGAAA	263
DB	185	GCTGTCACTTAATGATGAGCTTAAGTCTAGG-ATCTACCTGTAGTGGGGGATAGCTCGGGGAAA	244
QY	264	TGGGACGATCTAGTGTGATGAGGATGATGACGACACCGGGACTGAGACACGGC	323
DB	245	AGGCAACGATGATGATGAGGATGATGACGACACCGGGACTGAGACACGGC	304
QY	324	CCGACCT-CTACCGGAGGACGACGAGTGGGGAATATTGACATGAGGGAACCCCTGATCCA	382
DB	305	CCGACCT-CTACCGGAGGACGACGAGTGGGGAATATTGACATGAGGGAACCCCTGATCCA	364
QY	383	GCCATCGCGGTGTGTGAAGAGGCTTTTGGTTGAAGAAGCACTTTAAGCAGTGAAGAG	442
DB	365	GCAACGCGCGGTGTGTGAAGAGGCTTTTGGTTGAAGAAGCACTTTAAGCAGTGAAGAG	424
QY	443	ACTCTTGGTTTAATACCGGGGACATGACATTAAGTGGAGAAATTAAGCAACCGGCTTAAGC	502
DB	425	AACTTGGTTTAATACCGGGGACATGACATTAAGTGGAGAAATTAAGCAACCGGCTTAAGC	484
QY	503	TGTGACGACGACCGCGGTATACAGAGGATGCAAGGCTTAATCGGAATTAATCGGCGCTAA	562
DB	485	CGTGACGACGACCGCGGTATACAGAGGATGCAAGGCTTAATCGGAATTAATCGGCGCTAA	544
QY	563	AGCGAGGTAAGTGGCTTGAATAGTCAGATGTGAATCCCGGGGCTTAACCTGGGAATG	622

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Db      545 ACCGCGCGGAGGTGTTCTTAAGTGTGTAAGAACCCCGCGCTCAACCGGAGAGGT 604
Qy      623 CATCTGAACTGTAGCTAGAGTAGAGGAGGAGTAAGATTCAAGTGTAGCGGTG 682
Db      605 CATTTGAACTGGGAACTTGAAGTAGAAGAGAAAGTGAATTCACGTGAGGGGTG 664
Qy      683 AATGCGTAGAGTCTGAAAGAAATACCAATGCGAAGGCAAGCTTCTGGCATCATCTGA 742
Db      665 AATGCGTAGAGTCTGAAAGAAATACCAATGCGAAGGCAAGCTTCTGGCATCATCTGA 724
Qy      743 CACTGAGGCTCGAAGCGTGGGAGCAACAGGATTAAGTACCTGGTAGTCCAGCGGT 802
Db      725 CACTGAGGCGCGAAGCGTGGGAGCAACAGGATTAAGTACCTGGTAGTCCAGCGGT 784
Qy      803 AATGCGTAGAGTCTGAAAGAAATACCAATGCGAAGGCAAGCTTCTGGCATCATCTGA 861
Db      785 AATGCGTAGAGTCTGAAAGAAATACCAATGCGAAGGCAAGCTTCTGGCATCATCTGA 844
Qy      862 AGTAGACCGCTGGGAGTAGACCGCGCAAGGTTAAATCTCAATGAAATGACGGGGGCC 921
Db      845 AGCACTCCGCTGGGAGTAGACCGCGCAAGGTTAAATCTCAATGAAATGACGGGGGCC 904
Qy      922 GCAAGACCGGTGGAGTAGAGTGTAAATTCGATGCAACGCGAAGAACTTAACCTGCTT 981
Db      905 GCAAGACCGGTGGAGTAGAGTGTAAATTCGATGCAACGCGAAGAACTTAACCTGCTT 964
Qy      982 GACATACAGAACTTGTAGAGATACGAGAGTCC--TTCCGGAATTGTATACAGGTG 1039
Db      965 GACATCTCTGACATCTCTAGAGATAGAGAGCTTCCCTTCGGGGGACAAGTAGACGGTG 1024
Qy      1040 CTGCAATGCTGTCTGACGCTCGTGTGAGATGTTGGTTAAAGTCCCGCAAGACGCA 1099
Db      1025 GTGCAATGCTGTCTGACGCTCGTGTGAGATGTTGGTTAAAGTCCCGCAAGACGCA 1084
Qy      1100 ACCCTGTCTTAACTTAAACGAGCACTTCGGGTGGGAACTCAAGAAATACGCGAGTGA 1159
Db      1085 ACCCTGTCTTAACTTAAACGAGCACTTCGGGTGGGAACTCAAGAAATACGCGAGTGA 1143
Qy      1160 ACTGAGAGAAAGCGGGGACGACGTCAGATCATGAGCCCTTACGACCAAGGGCTACAC 1219
Db      1144 ACCGAGAGAAAGTGGGAGTAGACCTCAATCATATGAGCCCTTATGACCTGGGCTACAC 1203
Qy      1220 GTGCTCAATGAGTAGACGAGGAGCTACACAGGATGTATGCGAAATCTCAAAAG 1279
Db      1204 GTGCTCAATGAGTAGACGAGGAGCTACACAGGATGTATGCGAAATCTCAAAAG 1263
Qy      1280 CCTATGTAATCCAGATGTGAGTCTGCACTGCACTTCAATGAAGTGAATTCCTAGTAA 1339
Db      1264 CCTATGTAATCCAGATGTGAGTCTGCACTGCACTTCAATGAAGTGAATTCCTAGTAA 1323
Qy      1340 TCGCGATTCAGAAATGCGCGGTGAATGTTCCCGGCTTGTACACACCGCGCTGACA 1399
Db      1324 TCGCGATTCAGAAATGCGCGGTGAATGTTCCCGGCTTGTACACACCGCGCTGACA 1383
Qy      1400 CCAATGGAATGATGTCAGCAAGAGT--GGTTAGCTTAATTAAGTGAAGCGATCAACAG 1458
Db      1384 CCAATGGAATGATGTCAGCAAGAGT--GGTTAGCTTAATTAAGTGAAGCGATCAACAG 1443
Qy      1459 GTGTGCTGATGATGCGGGTGAAGTCTTAACAAGTGAAGCGGTGAAGCGGAGTGG 1518
Db      1444 GTGTGCTGATGATGCGGGTGAAGTCTTAACAAGTGAAGCGGTGAAGCGGAGTGG 1503
Qy      1519 ATCA 1522
Db      1504 ATCA 1507

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RESULT 7
US-11-055-637-66
; Sequence 66, Application US/11055637
; Publication No. US20050260619A1
; GENERAL INFORMATION:

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; APPLICANT: BROUSSEAU, Roland
; APPLICANT: DUBOIS, Jason
; APPLICANT: EDGE, Tom
; APPLICANT: MASSON, Luc
; APPLICANT: TREVORS, Jack T.
; TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND
; TITLE OF INVENTION: CHARACTERIZATION OF MICROORGANISMS IN MICROBIAL COMMUNITIES
; FILE REFERENCE: 2139-33US
; CURRENT APPLICATION NUMBER: US/11/055,637
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: US 60/543,288
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 66
; LENGTH: 1545
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe for DNA array
US-11-055-637-66

Query Match      55.0%; Score 839.2; DB 7; Length 1545;
Best Local Similarity 76.1%; Pred. No. 1.5e-261;
Matches 1152; Conservative 0; Mismatches 341; Indels 20; Gaps 9;

Qy      30 GCGCGAGGCTTAACATATGACGAGCGGAAACGATGATAGCTTATTAAGCGCTC 89
Db      31 GCGCGGCTGCTTAATATGACGAGCGGAAACGATGATAGCTTATTAAGCGCTC 89
Qy      90 GAGCGCGGAGCGGAGTAAATTAATTAAG--AATCACTAGATGAGGAGATACCTCG 148
Db      90 --AGCGCGGAGCGGAGTAAATTAATTAAG--AATCACTAGATGAGGAGATACCTCG 147
Qy      149 GGAATCTGAATTAATACCGCATACGTCTACGGG-----AGAAAGCGGGATC 197
Db      148 GGAATCTGAATTAATACCGCATACGTCTACGGG-----AGAAAGCGGGATC 207
Qy      198 ATTAACTTGGCTATTAGATGAGCTTAATGCTGATTAAGATGATGAGGTTAAAGC 257
Db      208 CTTTATGCTAACCATTAAGATGAGACCGCGGCAATTAAGCTTATGATGATGAGGTTAAAGC 267
Qy      258 CTACATGCGGAGCATCTGATGCTGAGAGATGATACAGCCACACCGGAGCTGAGA 317
Db      268 TCACCAAGGAGAGATGCGATGAGCTGAGAGGATGATGCGCACACTCGGAGCTGAGA 327
Qy      318 CACGCGCCGAGACT--CTACGAGAGGAGCAGAGTGGGAAATATGGAACATGAGGAAACCTT 376
Db      328 CACGCGCCGAGACT--CTACGAGAGGAGCAGAGTGGGAAATATGGAACATGAGGAAACCTT 387
Qy      377 GATCAGCAATGCGCGGTGTGTAAGAGCCCTTTGGTTTAAAGCATTTAAAGCATG 436
Db      388 GACGAGAGCAACCGCGGTGTGTAAGAGCCCTTTGGTTTAAAGCATTTAAAGCATG 447
Qy      437 AAGAAGCTCTTGGGT--TAATACCGGGGAGCATGACATTAAGCTGAGAAATAAGACCGG 495
Db      448 AAGAAGCTCTTGGGT--TAATACCGGGGAGCATGACATTAAGCTGAGAAATAAGACCGG 507
Qy      496 CTAATCTGTGCGAGAGCGCGGTAAATACAGAGGTGACAGGCTTAATCGAATTAATG 555
Db      508 CTAATCTGTGCGAGAGCGCGGTAAATACAGAGGTGACAGGCTTAATCGAATTAATG 567
Qy      556 GCGGTAAAGCGAGCGTATGAGTGTGATTAAGTCAATGTGAATATCCCGGGCTTAACCTG 615
Db      568 GCGGTAAAGCGAGCGGTATGAGTGTGATTAAGTCAATGTGAATATCCCGGGCTTAACCTG 627
Qy      616 GGAATCTGCAATCTGAATCTGTAGCTAGAGTGAAGAGGAAAGTAAATTCAGGTG 675
Db      628 GGAAGGTCAATGGAATCTGGGAACTTGAAGTGAAGAGGAAAGTGAATTCAGGTG 687
Qy      676 AGCGGTGAATGCGTAGAGATCTGAAGGAATACCGATGGCGAAGGAGCTTCTGGCATC 735
Db      688 AGCGGTGAATGCGTAGAGATCTGAAGGAATACCGATGGCGAAGGAGCTTCTGGCATC 747

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QY 736 AATCTGACACTGAGGCTCGAAAACGCTGGTAGCAACAGATTAGTACCTCTGTAGTCC 795
DB 748 TAACTGACGCTGAGGCGCCAAAGCGTGGGAGCGAACAAGATTAGTACCTCTGTAGTCC 807
QY 796 AGCGCGTAAACGATGCTACTAGTCTTGGGTCCTTGGAGAC-TTAGTGAAGCAGCTAA 854
DB 808 AGCGCGTAAACGATGCTACTAGTCTTGGGTCCTTGGAGAC-TTAGTGAAGCAGCTAA 867
QY 855 CGCAATTAAGTAGACGCGCTGGGAGTAGCGCCGCAAGGTTAAACCAATGAATTGAGC 914
DB 868 CGCATTTAACAACCTCCGCTGGGAGTAGCGTGCAGAACTGAACCTCAAGGAATTGAGC 927
QY 915 GGGGGCCGCAACGCGGTGGAGCATGTGTTTAATTGATGCAACGCGAAGAACCTTTACC 974
DB 928 GGGGGCCGCAACGCGGTGGAGCATGTGTTTAATTGATGCAACGCGAAGAACCTTTACC 987
QY 975 TGGTCTTGACATACACAGAACTCTTGAGAGTACGAGAGTGCCTTGGGAATTGTGATAC 1034
DB 988 AGGTCTTGACATCTCTGACAAACCTTAGAGATAGGCTTCCCTTCGGGGGAGAGTAC 1047
QY 1035 AGGTGCTGATGGCTGCTCGAGCTGTGTCGTAGATGTTGGGTTAAGTCCCGAACA 1094
DB 1048 AGGTGCTGATGGCTGCTCGAGCTGTGTCGTAGATGTTGGGTTAAGTCCCGAACA 1107
QY 1095 GCGCAACCTTGTCTTACTTACTTACAGACCTTGGGTGGAACTCTTAAGGATCTGCACT 1154
DB 1108 GCGCAACCTTGTCTTACTTACTTACAGACCTTGGGTGGAACTCTTAAGGATCTGCACT 1166
QY 1155 GACAACTGGAGAGGCGGGGACAGCTGCAAGTATCATTTGGCCCTTACGACCGAGCTA 1214
DB 1167 GACAACTGGAGAGGCGGGGACAGCTGCAAGTATCATTTGGCCCTTACGACCGAGCTA 1226
QY 1215 CACAGCTGTACAAATGATGATACAGAGGCAAGCTACAGAGAGTGTAGCAATCTCA 1274
DB 1227 CACAGCTGTACAAATGATGATACAGAGGCAAGCTACAGAGAGTGTAGCAATCTCA 1286
QY 1275 AAAAGCTATCTGATGCTCAAGTGTGAGTCTGCAACTGCACTCAGTAGTAAGAACTGCT 1334
DB 1287 CAATCTGATCTCAAGTGTGAGTGTGAGTGTGCAACTGCACTCAGTAGTAAGAACTGCT 1346
QY 1335 AGTAATCGGGGATCAGAAATGCGCGGTGAAATAGCTTCCCGGGCTTGTACACACCGCCG 1394
DB 1347 AGTAATCGGGGATCAGAAATGCGCGGTGAAATAGCTTCCCGGGCTTGTACACACCGCCG 1406
QY 1395 TCACACCATGGAGTGTGATGCAACAGAGT-GGTTAGCTAATTAGTAGAGGCGATCA 1453
DB 1407 TCACACCATGGAGTGTGATGCAACAGAGT-GGTTAGCTAATTAGTAGAGGCGATCA 1466
QY 1454 CCAAGCTGTGATGATGATGCTGGGGTGAAGTCTTAACAGATAGCCGTAGAGGAACTTGC 1513
DB 1467 CCAAGCTGTGATGATGATGCTGGGGTGAAGTCTTAACAGATAGCCGTAGAGGAACTTGC 1526
QY 1514 GCTGATCACTTC 1526
DB 1527 GCTGATCACTTC 1539

RESULT 8
US-11-055-637-74
; Sequence 74, Application US/11055637
; Publication No. US20050260619A1
; GENERAL INFORMATION:
; APPLICANT: BROUSSEAU, Roland
; APPLICANT: DUBOIS, Jason
; APPLICANT: EDGE, Tom
; APPLICANT: MASSON, Luc
; APPLICANT: TREVORS, Jack T.
; TITLE OF INVENTION: A DNA MICROARRAY FOR FINGERPRINTING AND
; FILE REFERENCE: 2139-33US
; CURRENT APPLICATION NUMBER: US/11/055, 637
; CURRENT FILING DATE: 2005-02-11
```

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; PRIOR APPLICATION NUMBER: US 60/543,288
; PRIOR FILING DATE: 2004-02-11
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 1535
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe for DNA array
US-11-055-637-74

Query Match 53.9%; Score 822.2; DB 7; Length 1535;
Best Local Similarity 76.6%; Pred. No. 4.7e-256;
Matches 1138; Conservative 0; Mismatches 326; Indels 22; Gaps 10;

QY 30 GGGCGGAGCTTAAACATGCAAGTCGAGCCGGAACGATGATAGCTTGTATTAAGCCTC 89
DB 31 GGGCGGAGCTTAAACATGCAAGTCGAGCCGGAACGATGATAGCTTGTATTAAGCCTC 88
QY 90 GAGCGCGGAGCGGGTGAATTAATCTTAGG-AACTACTAGTAGTGGGAGTAGCTCG 148
DB 89 -TAGCGCGGAGCGGGTGAATTAATCTTAGG-AACTACTAGTAGTGGGAGTAGCTCG 147
QY 149 GGAACCTGAAATTAATCCGATA-----CGTCTACGGGAGAAAGCAAGG--GNTCA 198
DB 148 GGAACCTGAAATTAATCCGATACTTCTTCTCTCGGAGAAAGGTTGAAAGACGG 207
QY 199 TTAGACCTTGGCTTTAGATGAGCTTAAGTGTGATTTAGCTAGATGCTGTAAAGGCC 258
DB 208 CTTGGCTGTCACTTACAGATGAGGCGCGCGGCACTTGTAGCTTGTGTAGGATTAACGCT 267
QY 259 TACATGCGAGCATCTGTAGCTGTGAGAGATGATCAAGCCACACCGGAGCTGAGAC 318
DB 268 CACCAAGCGAGCATGCTGTAGCTGTGAGAGATGATCAAGCCACACCGGAGCTGAGAC 327
QY 319 ACGGCCCGAGCT-CTACGGGAGGACAGTGGGAAATTTGCAATAGGAGAAACCTTG 377
DB 328 ACGGCCCGAGCTCTACGGGAGGACAGTGGGAAATTTGCAATAGGAGAAACCTTG 387
QY 378 ATCCAGCATGCGCGGTGTGAGAAAGCCCTTTGTGTTTAAACACTTTAAGACATGA 437
DB 388 ACGGAGCAACCGCGGTGTGAGAAAGCCCTTTGTGTTTAAACACTTTAAGACATGA 447
QY 438 AGAAGACTCTTGTGTTTAAATTAACCCGGGAGCATGATTAAGCTGCAAAATTAACACCGCT 497
DB 448 AGAAGACTCTTGTGTTTAAATTAACCCGGGAGCATGATTAAGCTGCAAAATTAACACCGCT 507
QY 498 AACTCTGTGCGAGACCGCGGTAAATACAGAGGATGCAACGCTTAATCGAAATTA 557
DB 508 AACTCTGTGCGAGACCGCGGTAAATACAGAGGATGCAACGCTTAATCGAAATTA 567
QY 558 CGTAAAGGAGGTAGTGTGCTTGAATAGTCAAGTGTAAATCCCGGGCTTAACTTGG 617
DB 568 CGTAAAGGAGGTAGTGTGCTTGAATAGTCAAGTGTAAATCCCGGGCTTAACTTGG 627
QY 618 AACTCATCTGAAACTGTTAGCTAGAGTAGGAGGAGTGAATTTTCAGGTAG 677
DB 628 AAGGTCAATTTGAAACTGTTAGCTAGAGTAGGAGGAGTGAATTTTCAGGTAG 687
QY 678 CGGTAAATTCGTAGAGATCTGAAGAAATACCGATGCGAAGGACCTTCTGATCAT 737
DB 688 CGGTAAATTCGTAGAGATCTGAAGAAATACCGATGCGAAGGACCTTCTGATCAT 747
QY 738 ACTGACACTGAGGCTCGAAAGCGTGGTGAAGAAACAGATTTAGATTAATCTGTATG 797
DB 748 ACTGACACTGAGGCTCGAAAGCGTGGTGAAGAAACAGATTTAGATTAATCTGTATG 807
QY 798 GCGGTAAGAGATGTACTAGTGTGCTTGGCTCCCTTGAAGAC-TTAGTGAAGCAGCTAAC 856
DB 808 GCGGTAAGAGATGTACTAGTGTGCTTGGCTCCCTTGAAGAC-TTAGTGAAGCAGCTAAC 867
QY 857 CAATTAAGTAGACCGCTGGGAGTAGCGCCGCAAGTTAAATCTCAATGAATTGACGGG 916
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OY	1095	GGCGAACCCCTTGTCTCTTAGTTAACGACACTTCGGGTGGGAATCTTAAGAAATCTGCCAGT	1154
Db	1088	GGCGAACCCCTTGATTTTAGTTGGCCAGCA - TTCAGTTGGGCACTTAAAGTAACTGCCGT	1146
OY	1155	GACAAACTGGAGAGAGCGGGGACACGTCGAATCATATGAGCCCTTTCAGACAGAGGCTA	1214
Db	1147	GATTAACCGGAGAGAGGTGGGATACGTCGAATATATATATGCCCCCTTATGACTTGGGCTA	1206
OY	1215	CACACGTGCTCAATGTTAGGTACAGAGGGCAGCTTACACAGCATGTGATGCAATCTCA	1274
Db	1207	CACAGTGCTCAATGATGATGATACAGAGGTTGGCAACCCGAGAGGGAGGCAATCCCA	1266
OY	1215	AAAAGCCTATGCTAGTCCAGATTTGGAGTCTGCAATCGACTTCATGAAGTAGAATCGCT	1334
Db	1267	TAAAACTCTTCCCAATTTGGATTTGAGAGGCTGCAATCCCTTCATGAAGTTGGATCGCT	1326
OY	1335	AGTAATCGCGGATTCAGAAATGCCGCGGTGATTCGTTCCCGGGCCCTTGACACACCGCCG	1394
Db	1327	AGTAATCGTGATTCAGCAATGCCACGCTGAATACGTTCCCGGGCTTTGTACACACCGCCG	1386
OY	1395	TCACACCATGGGAGTTGATTGACACCAAGATGATTAGCT--AACTTAGTAGGGCGCATC	1452
Db	1387	TCACACCAAGAGATTGTTAAACACCCGAAGTGGGTGGGTATCATTTAGGGAGGCAACGGC	1446
OY	1453	AACCAAGGTGTGTCGATGACTTGGGGTGAAGTCGTACAA	1491
Db	1447	CGAAGGTGGGACAGATGATTGGGGGTGAAGTCGTACAA	1485

```

RESULT 10
US-10-793-626-3356/c
; Sequence 3356, Application US/107933626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793.626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3356
; LENGTH: 3169
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-10-793-626-3356

```

Query Match	53.8%;	Score 821.2;	DB 6;	Length 3169;
Best Local Similarity	74.1%;	Pred. No. 1.4e-255;		
Matches 1120; Conservative	0;	Mismatches 376;	Indels 15;	Gaps 6;

QY	30	GGCGGAGAGCTTAA	CACATGCAAGTCGAGCGGAA	CCATGATAGCTGTATTAAGCGTC	89
Db	2809	GGCGGCGTGCCCTTA	TACATGCAAGTCGAGCGA	ACGAGAGGCTGTCTCTCTGACGT	2750
QY	90	GAGCGCCGGA	CGGGTGAGTA	TACTTAGAATCTACCTAGTAGGGGGATAGCTCGGG	149
Db	2749	TAGCGCGCGGA	CGGGGAGATTA	CAGCTGGATTAACCTTAATTAAGACTGGGATTAACCTCGG	2690
QY	150	GAAACTCGAATTAAT	TACCGCAT-----	ACGCTACGGGAGAGAAACGAGGGATCATT	200
Db	2689	GAAACCGAGCTAAT	ATACCGGATTAATATTA	TGAAACCGCATGGTTCAATAGTAAGAACGGT	2630
QY	201	AGACTTCGCGTATTA	AGTAGAGCTTAAGTCGGATTA	AGCTAATGTGGGGTAAAGCCCTA	260
Db	2629	TTTGCTGTCACTTAA	TAGATGATCGCCCGCATAGCTAGTGTGTAAGGTAA	CGGCTTA	2570

OY	261	CAATGGGAGCATCTGTAGCTGCTGTAGAGAGATGATCAGCAACCGGGACTAGAAC	320
Db	2569	CCAAAGGCAACATCCGTAGCCGACTTAGAGAGGTGATTCGGCAACTGGAACCTGAGAAC	2510
OY	321	GGCCCGGACTCTACGGGAGGCAAGCTGGGGAAATATTGCAAAATGNGGGAACCTGAT	379
Db	2509	GGTCCAGACTCTACGGGAGGCAACGATAGGGAATCTTCCGCAATGGCGGAACCTGAC	2450
OY	380	CCAGCCATGCCCGCTGTGTGAAGAAGCCCTTTGGTTGTAAAGCACTTAAAGCACTGAG	439
Db	2449	GGACCAACCGCCGCTGAGTGTGAAGGCTCTCGATGATAAACTCTGTTATTGAGGAAG	2390
OY	440	AAGACTCTCGGTTAATATCCGGGGAGATGACATTAGCTGCAGAAATAGCAACGGGCTAA	499
Db	2389	AACAAATGTGTAATGTAATCTATGACGCTCTTAGCGTACTTAATCAAGAAACACGGGCTAA	2330
OY	500	CTCTGTGCCAGACACCCCGGTAAATACAGAGGGTCAAGCCTTAACTCGGAATTACTGGGCG	559
Db	2339	CTAGTGTCCAGACACCCCGGTAAATACGTAAGTGGCAACGTTATCCGGAATTAATTGGGCG	2270
OY	560	TAAAGCAGCGTAGGTGGCTTGATTAAGTCAAGATGTAAATCCCGGGCTTAACTTGGGA	619
Db	2269	TAAAGCGGCGTAGGCGGTTTTTAAAGCTGTAGTGTAAAGCCCAACGGGTCAACCGTGGAG	2210
OY	620	CTGATCTGTAAACTGTTAGGCTTAAGATAGGAGAGAGGAAGTAAATTTCAAGTGTACG	679
Db	2209	GGTATTGTGAAAACGTGAAAACCTTAGAGTCAGAAAGAAAGTAATTCATGTGTATGCG	2150
OY	680	GTGAATATGCGTAGAGATCTGAAGGAATACGATGGCGAAGGCACTTCTGGCATCATAC	739
Db	2149	GTGAAATGCCAGAGATATGTAGAGGAACAACAGTGGCGAAGGCACTTCTGTGCTGTATAC	2090
OY	740	TGACACTGAGGCTTGAAAACGTGGGTAGCAAAACAGATTAGATACCTGTGATGTCAACG	799
Db	2089	TGACGCTGATGTGGAAAACGTGGGAGTCAAAACAGATTAGATACCTGTGATGTCAACG	2030
OY	800	CGTAAAGATGTCTACTAGTGTGGGTCCCTTAGAGA-CTTAGTGACGACGTAAAGCA	858
Db	2029	CGTAAAGATGTGCTACTAGTGTAGGGGGGTTTTCCGCCCTTAATGTGTGACGTAAACGA	1970
OY	859	ATAAGTATGACCGCGCTGGGGAGTACGGCGGCAAGGTTAAACTCAATAGAAATTGACGGGG	918
Db	1969	TTAAAGCACTCCGCTGGGGAGTACGACCGCAAGGTTGAATCTCAAAAGGAATTGACGGGA	1910
OY	919	CCGCAAGCGGTGAGACATGTGGTTAAATTCGATCAACGCGAAGAACCTTACTTGGT	978
Db	1909	CCGCAAGCGGTGAGACATGTGGTTAAATTCGATCAACGCGAAGAACCTTACTTGAAT	1850
OY	979	CTTAGCATACACAGAAATCTGTAGAGATACGAGAGTGC--TTGGGAAATTGTATACG	1036
Db	1849	CTTAGCATCTCTGACCCCTCTTAGAGATAGATTTTCCCTTCCGGGGACACAGATTAACG	1790
OY	1037	GTGCTGATAGGCTGTGTCAGCTGTGTGTCGAGATATGTGGTTAATGATCCCGAACAAGC	1096
Db	1789	GTGGTGACATGTTTGTGTGTCAGCTGTGTGTCGAGATGTGGTTAATGATCCCGAACAAGC	1730
OY	1097	GCAACCCCTGTGCTTAGTTACAGACCTTCGGGTGGGAACCTTAAGATATCTGCAGTGA	1156
Db	1729	GCAACCCCTTAGTCTTAGTGTGACACA-TTAAAGTTGGGCACTTAAGTTGATGTGCGGGGA	1671
OY	1157	CAAACTGAGAGAGCGGGGACGAGCTCAAGTCATCATGCGCTTACGACCAGGCTTACA	1216
Db	1670	CAAACTGAGAGAGGTGGGATGACGTCAAATCATCATGCGCTTACGATTGGGGCTACA	1611
OY	1217	CACGTGCTTACAATGTAGATACAGAGGGGAGCTACAGCGATGTGATGCGAATCTCAA	1276
Db	1610	CACGTGCTTACAATGTAGACAAATGAGGCGAGCGAAACCGGAGGTCAAGCAAACTCCATA	1551
OY	1277	AAGCTATTCGATGTCAGATTTGAGTCTGCAACTCGACTCCATATAGTAGGAATTCGCTAG	1336
Db	1550	AAGTTGTTCTCAGTTGGATTTTATGATGTGCAACTCGACTATATATAGCTGGAATTCGCTAG	1491
OY	1337	TAAATCGGAGTACAGAAATGCGCGGTGAATAGTTTTCCGGGCTTGTACACACGCGCGTC	1396





RESULT 12  
US-10-793-626-3967/c  
; Sequence 3967, Application US/10793626  
; Publication No. US20050255478A1  
; GENERAL INFORMATION:  
; APPLICANT: KIMBERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/10/793, 626  
; PRIORITY FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164, 258  
; PRIORITY FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3967  
; LENGTH: 3821  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
; OTHER INFORMATION: nucleic acid sequence  
US-10-793-626-3967

Query Match 53.7%; Score 819.6; DB 6; Length 3821;  
Best Local Similarity 74.1%; Pred. No. 5e-255;  
Matches 1119; Conservative 0; Mismatches 377; Indels 15; Gaps 6;

QY 30 GGGCGGAGCTTAAACATGCAAGTCGAGCGGAACGATGATAGCTTCTATTAGGCGTC 89  
DB |||||  
DB 3616 GGGGGGGTGCCTTAATCATGCAAGTCGAGCGGAACGAGGAGCTTCTCTGACGCT 3557  
QY 90 GAGCGCCGGAAGGGGAGTAATCTTAAAGAACTCACTAGTAGTGGGGATAGCTCGGG 149  
DB |||||  
DB 3556 TAGCGCGGACGGGTGAGTAACGTCGATTAACCTTAAAGCTAGTGGATTACTTCCG 3497  
QY 150 GAAACTCGAATTAAATACCGCAT-----ACGCTACGGGAGAAAGAGGGGATCAT 200  
DB |||||  
DB 3496 GAAACCGGAGCTTAATACCGGATTAATATTGAACCGCATGGTTCAATAGTGAAGCGGT 3437  
QY 201 AGACCTGGGCTATTAGATGAGCTTAAGTCGATTAGCTAGATGTTGGGTTAAAGGCTTA 260  
DB |||||  
DB 3436 TTTGCTGATCACTTAATGATGATCCGCGCGCATTTGCTAGTTGTTAAAGGCTTA 3377  
QY 261 CCATGGCGAGATCTGATGCTGAGAGGATGATCAAGCAACCGGAGCTGAGAGCAC 320  
DB |||||  
DB 3376 CCAAGGCAACGATGCTAGCCGACCTGAGAGGCTGATCGCCACACTGGAACCTGAGACAC 3317  
QY 321 GGGCCCGGACT-CTACGGGAGGAGCAGAGTGGGGAATATTGGAACATGAGGGAACCTGAT 379  
DB |||||  
DB 3316 GGTTCAGACTCTCTAGCGGAGGAGGAGCAGTAGGGAATCTTCGCAATGGGGAAGCCTGAC 3257  
QY 380 CCAAGCATCCCGGTGTGTGAAGAGGCTTTGGTTGTTAAACACTTTAAGCATGAAG 439  
DB |||||  
DB 3256 GGAAGCAACCGCGGTGATGATGAAGGTCTTCGATCGTAAACTGTATTATTAAGGAAG 3197  
QY 440 AAGACTCTCGGTATATACCCGGGAGCATTAAGCTGACGATTAAGCACCGGCTTA 499  
DB |||||  
DB 3196 AACCAATTGTATGATCTATGACGCTTTGACGATCACTTAATCAAAAAGCCACGGCTTA 3137  
QY 500 CTCTGTGCGAGAGCGCGGTATATACAGAGGTGCAAGGCTTAATCGAATTAAGGCGG 559  
DB |||||  
DB 3136 CTACGTCGACGAGCGCGCGGTATATAGTAGTGGCAAGGCTTAATCGGAATTAATGGGG 3077  
QY 560 TAAAGCGAGCTAGTGCTGTTAGTAAGTCAAGTGAATATCCCGGGCTTAACCTGGGAA 619  
DB |||||  
DB 3076 TAAAGCGCGCTAGTGCTGTTTAAAGTCTGAATGTGAAGCCACCGGCTCAACCGTGAAG 3017  
QY 620 CTGCACTGAATCTGTAGGCTAGTAGTGAAGGAGGAGTGAATTTCAAGTGAAGG 679  
DB |||||  
DB 3016 GGTCAATTGAACCTGAAAACTTGAATGACAGAAAGAGGAGTGAATTCATGTGTGAAG 2957

QY 680 GTAAATGCTAGAGATCTGAAGGAATACCGATGCGAAGAGCAGCTTCTGCGATCATAC 739  
DB |||||  
DB 2956 GTGAATGCGCAGAGATATGAGGAACACCAAGTGGCGAAAGGCGACTTCTGTGCTGTAAAC 2897  
QY 740 TGACCTGAGGCTCGAAAGCGTGGGTAGCAACAGATTAATATCCCTGTGTGTCCAGCC 799  
DB |||||  
DB 2896 TGACGCTGATGTGCAGAAAGCGTGGGATCAACAGAGATTAGTACCTGTGTGTCCAGCC 2837  
QY 800 CGTAAAGATGCTACTAGTGTGGGTCCCTTGAAGA-CTTAGTAGCAGCTAAACGA 858  
DB |||||  
DB 2836 CGTAAACGATGATGCTAAGTGTTAAGGGGTTTCCGCCCTTAGTGTCTACACTAACGA 2777  
QY 859 ATTAAGTAGACCGCTCGGGAGTAGACCGCGCAAGTTAAACTCAATGAATGAACGGGG 918  
DB |||||  
DB 2776 TTAAGCACTCCGCTGGGGAAGTACAGCCGAAGTTGAATCAAGAAATTAAGCGGGA 2717  
QY 919 CCGGCAAGCGGTGAGCATGTGTTTAATTCATGCAACCGGAAGAACTTACCTGCT 978  
DB |||||  
DB 2716 CCGGCAAGCGGTGAGCATGTGTTTAATTCGAAGCAACCGGAAGAACTTACCTGCT 2657  
QY 979 CTGACATACACAGAACTCTGTGAGATTAACGAGAGTGC--TTGGGAAATTGTATACG 1036  
DB |||||  
DB 2656 CTGACATCTCTTGACCCCTCTAGAGATTAAGTTCCTCTTGGGGGACAGAGTACAG 2597  
QY 1037 GTGCTGATGCTGTCTGACGCTGCTGTGATGATGTTGGTTAAGTCCCGCAACGAC 1096  
DB |||||  
DB 2596 GTGCTGATGCTGTCTGACGCTGCTGTGATGATGTTGGTTAAGTCCCGCAACGAC 2537  
QY 1097 GCACCTTTGTCTTATGTTACAGCATCTTGGGTGGAACTTAAGATTAATCTGCCAGTA 1156  
DB |||||  
DB 2536 GCACCTTTAAGCTTATGTTGCCATCA-TTAAATTGGGCACTTAAGTGAATGCGGTGA 2478  
QY 1157 CAACGTGAGAGGCGGGGAGAGCATGCAAGCATATGAGCCCTTAACGACGAGGCTACA 1216  
DB |||||  
DB 2477 CAACGTGAGAGGCGGGGAGAGCATGCAAGCATATGAGCCCTTAATGATTTGGGCTACA 2418  
QY 1217 CACGTGCTACATGCTAGATACAGAGGCGAGCTACACAGCATGATGCAATCTCAA 1276  
DB |||||  
DB 2417 CACGTGCTACATGCTAGATACAGAGGCGAGCTACACAGCATGATGCAATCTCAA 2358  
QY 1277 AAGCTATGCTATGCTCAAGTTGAGATCTGCAACTGCTCCATGAAAGTGAATGCTAG 1336  
DB |||||  
DB 2357 AAGTGTCTCAGTTGCTGATGCTGCAACTGCTCCATGAAAGTGAATGCTAG 2298  
QY 1337 TAATCGGATCAGATGCGGGGTGAATTAAGTTCGCGGCTTGAACACACCGCGCTG 1396  
DB |||||  
DB 2297 TAATCGTATGATGATGCTAGCTAGGTAATGCTTCCCGGCTTGTACACACCGCGCTG 2238  
QY 1397 ACACATGAGGATGATTTGACACAGAAAGTGTTCCTTA-CTTAGTGAAGGCGATCAC 1455  
DB |||||  
DB 2237 ACACATGAGGATGATTTGTAACACCGAAAGCGGTGAAGTACCATTTGAGCTAGCCGTG 2178  
QY 1456 ACGGTGTGCTGATGCTGCGGTGAAGTCTTAACAGAGTGAAGCGGTGAAGGGAACCTGCGGC 1515  
DB |||||  
DB 2177 AAGGTGGAACAATATATTGGGTGAAGTCTTAACAGAGTGAAGCGGTGAAGGAGTGGCGC 2118  
QY 1516 TGATACACCTC 1526  
DB |||||  
DB 2117 TGATACACCTC 2107

RESULT 13  
US-10-793-626-4460/c  
; Sequence 4460, Application US/10793626  
; Publication No. US20050255478A1  
; GENERAL INFORMATION:  
; APPLICANT: KIMBERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/10/793, 626  
; PRIORITY FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164, 258  
; PRIORITY FILING DATE: 1999-11-09



```

; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4460
; LENGTH: 3008
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-10-793-626-4460

Query Match      53.6%; Score 818; DB 6; Length 3008;
Best Local Similarity 74.0%; Pred. No. 1.5e-254;
Matches 1118; Conservative 0; Mismatches 378; Indels 15; Gaps 6;

QY 30 GGGCGGAGGCTTAACACATGCGAAGCGGAAACGATGATAGCTTGTCTATTAGGCGTC 89
DB 1517 GGGCGGCGTGCTTAATACATGCAAGTCGAGGAAACAGAGAGCTTGTCTCTGACGT 1458
QY 90 GAGCAGCCGAGCGGGTGAATTAATCTTAAGGAATCTAAGTATGAGGGATAGCTCCGG 149
DB 1457 TAGCGGCGGACGGGTGAATGAACGTGATTAACCTTAATGAAGCTGGGATTAACCTTCCG 1398
QY 150 GAAACTGAAATTAATACCGCAT-----ACGTCAACGGAGAAAGCAGGGGANTCATT 200
DB 1397 GAAACCGGAGCTTAATACCGGATTAATATTTGAACCGGATGTTCAATAGTAAAGACGGT 1338
QY 201 AGACCTTGCCTTAATAGATGAGCCTTAAGTCGATTAAGTATGATGATGAGGGTAAAGCCTTA 260
DB 1337 TTTGTGTGCTAATTAGATGAGTCCGCGCGCATTTAGCTAGTTGGTAAAGGTAACGGCTTA 1278
QY 261 CCAATGGGAGATCTGATGCTGCTCTGAAGAGATGATCAACCCACACCGGAGCTGAACAC 320
DB 1277 CCAAGGCAAGATGCGGTGACGCACTGAAGGGTGAATCGGCAACACTGAACTGAAGAC 1218
QY 321 GGGCCGGAGCT-CTACGGGAGGACAGAGTGGGAAATATTGACATAGGAGGAAACCCCTGAT 379
DB 1217 GGTTCAGACTCTCTACGGGAGGACAGAGTAAAGGATCTTCCGCAATGGGCAAAAGCTTGAC 1158
QY 380 CCAAGCATGCGCGGTGTGAAGAGGCGTTTGTGTGAAGCACTTTAAGCAGTGAAG 439
DB 1157 GAGGCAACGCGCGGTGATGATGAAGGTCTTCGGATGTAACCTGTTATTAGGAGAG 1098
QY 440 AAGAATCTTGGTTAATACCCGGGAGAGATGACATTAGCTGACAGATTAACACCGGCTAA 499
DB 1097 AACAAATGTGTAAATTAATGCAACGTCTTGAACGTAACCTTAACGAAGACCAACGCGCTAA 1038
QY 500 CTGCTGCGCAGACGCGCGGTAATACAGAGGATGCAAGCGTTAATCGGAATTACTGGGCG 559
DB 1037 CTACGTGCGCAGACGCGCGGTAATACAGTGGGCAAGCGTTATCCGGAATTAATGGGCG 978
QY 560 TAAAGCAGCGTATGCTGTGATTAAGTCAAGTGTAAATCCCGGAGCTTAACCTGGGAA 619
DB 977 TAAAGCGCGGTATGCGGTTTTTAACTGATGATGTAAGGCCACCGGCTCAACGCTGAG 918
QY 620 CTGCAATCTGAATCTTTAGGCTAGAGTGAAGTGAAGGAAATTTCAAGGTGATGCG 679
DB 917 GGTCAATGGAACCTGAAACCTTGAGTGCAGAGAGGAAAGTGAATTCATGATGTATGCG 858
QY 680 GTGAAGGCGTATGATCTGAAGGAATACGATGGGCAAGGCGCTTCTGGGATCTATAC 739
DB 857 GTGAAGTCCGAGAGATATGAGGAAACACAGTGGCAAGGCGCATTTCTGGTGTATAC 798
QY 740 TGACACTGAGGCTTGAAGCGTGGGTAGCAAAACAGATTAAGTACCTGTGATGACGCG 799
DB 797 TGACGCTGATGTGGAAGCGTGGGATCAAAACAGATTAAGTACCTGTGATGACGCG 738
QY 800 CGTAAACGATGTCTACTAGTCTGTTGGGTCCCTTGAAGA-CTTAAGTACGACGCTTAACCA 858
DB 737 CGTAAACGATGATGCTTAAGTGTATGGGGGTTTTCCGCCCTTAACTGCTGACGCTTAACCA 678
QY 859 ATTAAGTACCGCGCTGGGAGATGACGCGCAAGGTTAAACTCAATGAATTAAGTACGCGGCG 918
DB 859 ATTAAGTACCGCGCTGGGAGATGACGCGCAAGGTTAAACTCAATGAATTAAGTACGCGGCG 918
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DB 677 TTAAGCACTCCGCTGGGAGTACGACCGCAAGTTGAAACTCAAGGAATTAAGACGGGA 618
QY 919 CCCGCAAGCGGTGAGCATGATGTTAATTCATGCAACGGAAGAACTTAACCTGGT 978
DB 617 CCCGCAAGCGGTGAGCATGATGTTAATTCATGCAACGGAAGAACTTAACCAAT 558
QY 979 CTGACATACACAGAACTCTTGTAGAGATACGAGAGTGC--TTCCGGAATTGTATACAG 1036
DB 557 CTGACATCTCTGATTCCTCTAGAGATAGAGGTTTTCCCTTCGGGGAACAGATACAG 498
QY 1037 GTGCTGATGCTGTCTGATCACTCGTCTGATGATGTTGGTTAAGTCCCGCAAGAC 1096
DB 497 GTGCTGATGTTGTGTGATGCTCGTGTGTGATGATGTTGGTTAAGTCCCGCAAGAC 438
QY 1097 GCACCTTGTCTTATGTTAACAAGCACTTCGGGTGGAACTCTAAGATTAAGTCCAGTGA 1156
DB 437 GCACCTTATGATGTTAGTCCATCA-TTAAGTTGGGCACTCTAAGTTGATGCTGCGGTGA 379
QY 1157 CAATGAGAGAAAGCGGGAGCAAGCTCAAGTATCATGAGCCCTTAACGACAGGCTACA 1216
DB 378 CAACCGGAGAAAGTGGGAGTACGTCATATCATATGATGATGATTTGGGCTACA 319
QY 1217 CAGTGTCTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1276
DB 318 CAGTGTCTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 259
QY 1277 AAGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1336
DB 258 AAGTGTCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 139
QY 1337 TAATCGCGATCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1396
DB 198 TAATCGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 139
QY 1397 ACAACATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1455
DB 138 ACACACAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 79
QY 1456 ACGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1515
DB 78 AAGTGTGAGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 19
QY 1516 TGAATCACTC 1526
DB 18 TGAATCACTC 8

RESULT 14
US-10-793-626-4187/C
; Sequence 4187, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4187
; LENGTH: 3657
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-10-793-626-4187

Query Match      53.6%; Score 818; DB 6; Length 3657;
Best Local Similarity 74.0%; Pred. No. 1.6e-254;
Matches 1118; Conservative 0; Mismatches 378; Indels 15; Gaps 6;
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Good Blank (uspbio)

GenCore version 5.1.6  
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OW nucleic - nucleic search, using SW model

Run on: December 2, 2005, 23:29:37 ; Search time 1618.84 Seconds  
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Title: US-09-979-558A-1

Perfect score: 1526  
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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 413468905 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : PubliShed Applications NA Main:\*

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- 10: /cgn2\_6/prodata/1/pubpna/US11\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	1211	79.4	269223	7 US-10-672-787-41	Sequence 41, Appl
2	1098.6	72.0	1501	3 US-09-745-476-1	Sequence 1, Appl
3	1098.6	72.0	1501	3 US-09-821-016-5	Sequence 5, Appl
4	1098.6	72.0	1501	3 US-09-748-205-1	Sequence 1, Appl
5	1098.6	72.0	1501	3 US-09-793-520A-1	Sequence 1, Appl
6	1098.6	72.0	1501	3 US-09-951-720-1	Sequence 1, Appl
7	1098.6	72.0	1501	3 US-09-791-610-1	Sequence 1, Appl
8	1098.6	72.0	1501	3 US-10-218-519-5	Sequence 5, Appl
9	1098.6	72.0	1501	5 US-10-266-787-5	Sequence 5, Appl
10	1098.6	72.0	1501	5 US-10-252-518-5	Sequence 5, Appl
11	1098.6	72.0	1501	5 US-10-105-305-1	Sequence 1, Appl
12	1098.6	72.0	1501	5 US-10-133-404A-1	Sequence 1, Appl
13	1098.6	72.0	1501	6 US-10-242-696-1	Sequence 1, Appl
14	1098.6	72.0	1501	6 US-10-411-319-1	Sequence 1, Appl
15	1098.6	72.0	1501	7 US-10-649-646-1	Sequence 1, Appl
16	1098.6	72.0	1501	7 US-10-603-996-1	Sequence 1, Appl
17	1098.6	72.0	1501	8 US-10-827-670-1	Sequence 1, Appl
18	1090.4	71.5	1494	5 US-10-007-725-5	Sequence 5, Appl
19	1073.8	70.2	1467	3 US-09-737-297-4	Sequence 3, Appl
20	1070.8	70.2	1467	3 US-09-726-774-3	Sequence 3, Appl
21	1070.8	70.2	1467	3 US-10-719-633-3	Sequence 3, Appl
22	1070.6	70.2	1541	3 US-09-027-439-7	Sequence 7, Appl
23	1070.2	70.1	1542	7 US-10-361-002-6	Sequence 6, Appl

24	1070.2	70.1	1542	7 US-10-361-004-6	Sequence 6, Appl
25	1070	70.1	1534	6 US-10-029-397A-35	Sequence 35, Appl
26	1069.2	70.1	1542	3 US-09-940-925A-158	Sequence 158, Appl
27	1069.2	70.1	1542	3 US-09-941-193A-158	Sequence 158, Appl
28	1069.2	70.1	1542	5 US-10-061-071-33	Sequence 33, Appl
29	1069.2	70.1	1542	5 US-10-723-365B-29	Sequence 29, Appl
30	1069.2	70.1	1542	9 US-10-409-594-158	Sequence 158, Appl
31	1069.2	70.1	1542	10 US-11-069-442-33	Sequence 33, Appl
32	1066.2	69.9	10903	7 US-10-612-224-1	Sequence 1, Appl
33	1065.2	69.8	11318	7 US-10-612-224-2	Sequence 2, Appl
34	1065.2	69.8	13278	7 US-10-612-224-3	Sequence 3, Appl
35	1062.6	69.6	1541	3 US-09-726-774-2	Sequence 2, Appl
36	1062.6	69.6	1541	7 US-10-719-633-2	Sequence 8, Appl
37	1062	69.6	1541	9 US-10-972-530-8	Sequence 8, Appl
38	1058.2	69.3	1549	3 US-09-912-020-89	Sequence 242, Appl
39	1058.2	69.3	1549	3 US-09-912-020-242	Sequence 402, Appl
40	1058.2	69.3	1549	8 US-09-912-020-402	Sequence 89, Appl
41	1058.2	69.3	1549	8 US-10-771-241-89	Sequence 242, Appl
42	1058.2	69.3	1549	8 US-10-771-241-242	Sequence 402, Appl
43	1052.4	69.0	1487	3 US-10-771-241-402	Sequence 14, Appl
44	1052.4	69.0	1487	3 US-09-726-774-14	Sequence 14, Appl
45	1052.4	69.0	1487	7 US-10-719-633-14	Sequence 14, Appl

## ALIGNMENTS

RESULT 1  
US-10-672-787-41/C  
Sequence 41, Application US/10672787  
Publication No. US20040067554A1  
GENERAL INFORMATION:  
APPLICANT: LAGACE, Robert, E.  
APPLICANT: PATTERSON, Chandra  
APPLICANT: BERG, K.M., L.  
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES OF MORAXELLA CATARRHALIS GENOME  
FILE REFERENCE: EPIIIRA.02501  
CURRENT APPLICATION NUMBER: US/10/672,787  
CURRENT FILING DATE: 2003-09-26  
PRIOR APPLICATION NUMBER: 09/596,002  
PRIOR FILING DATE: 2000-06-16  
NUMBER OF SEQ ID NOS: 41  
SOFTWARE: PERL Program  
SEQ ID NO 41  
LENGTH: 269223  
TYPE: DNA  
ORGANISM: Moraxella catarrhalis  
US-10-672-787-41

Query Match	79.4%	Score 1211;	DB 7;	Length 269223;
Best Local Similarity	90.6%	Pred. No. 0;		
Matches 1361;	Conservative	0;	Mismatches 127;	Indels 15;
			Gaps	6;
QY 30	GGCGGAGGCTTAACATGCAAGTGCAGGCGAAGCATGATAGCTTGTATTAGGCGTC	89		
DB 92956	GGGGGAGGCTTAACATGCAAGTGCAGGCGAAGCATGATAGCTTGTATTAGGCGTC	92901		
QY 90	GAGCGCGGAGGCTTAACATGCAAGTGCAGGCGAAGCATGATAGCTTGTATTAGGCGTC	149		
DB 92900	TTAGTGGCGGAGGCTTAACATGCAAGTGCAGGCGAAGCATGATAGCTTGTATTAGGCGTC	92841		
QY 150	GAAGCTGCAATTAATCCGATACGCTTACGCGAAGGAAGGAGGATTAACCTTCG	209		
DB 92840	GAAGCTGCAATTAATCCGATACGCTTACGCGAAGGAAGGAGGATTAACCTTCG	92785		
QY 210	GCTATTAGATGAGCTTAAGTGCAGTATTAGCTTAAGTGGGCTTAAGGCGTCA	269		
DB 92784	GCTATTAGATGAGCTTAAGTGCAGTATTAGCTTAAGTGGGCTTAAGGCGTCA	92725		
QY 270	CGATCTGTAGCTGTGTGAGAGGATGATGACCAACCGGACTGAGACACGCGCGGAC	329		
DB 92724	CGATCTGTAGCTGTGTGAGAGGATGATGACCAACCGGACTGAGACACGCGCGGAC	92665		

OY	330	T-CTACGGGAGCGACGACGTGGGAAAT-----ATTGGACATGAGNGGAAACCCGATCCAG	383
Db	92664	TCCTACGGGAGCGACGACGTGGGAAATTTGGATTGGACATGGCCAAAGCCTGATCCAG	92605
OY	384	CCATGCCCGCTGTGTGAAAGAGCCCTTTTGTTGTTAAAGCATTTAAGCAGTGAAGAGA	443
Db	92604	CCATGCCCGCTGTGTGAAAGAGCCCTTTTGTTGTTAAAGCATTTAAGTGGGAGGAGAAA	92545
OY	444	CTCTTCGGTTAATACCCGGGGACGATGACATTAGCTGCGAATTAAGCACCGGCTAACTCT	503
Db	92544	GCTTAATGGTTAATACCCATTAAGCCCTTACGTTCCACAGAAATTAACACCGGCTAACTCT	92485
OY	504	GTGCGACGAGCCGGCGGTAAATACAGAGGGTGCAGACGTTATCCGAATTTACTGGCGTTAA	563
Db	92484	GTGCGACGAGCCGGCGGTAAATACAGAGGGTGCAGACGTTATCCGAATTTACTGGCGTTAA	92425
OY	564	GCGAGCGGTAGGTGGCTTGATTAAGTCAGATGTGAATCCCGGGCTTAACTTGGAATGCG	623
Db	92424	GCGGCGGTAGGTGGTTATTTAAGTCAGATGTGAAGCCCGGGCTTAACTTGGAATGCG	92365
OY	624	ATCTGAATCTGTTAGGCTTAGATAGTGTGAAGGGAGTAGAATTTCAAGTGTAGCCGTGA	683
Db	92364	ATCTGATCTGATTAATACAGTAGTGTGAAGGGAGTAGAATTTCAAGGTTAGCCGTGA	92305
OY	684	AATCGTATGAGATCTGMAAGGAATACCGATGGCCAGACGCTTCGGGATCATTAATGAC	743
Db	92304	AATGGTATGAGATCTGAGAGGAATACCGATGGCCAGACGCTTCGGGATCATTAATGAC	92245
OY	744	ACTGAGGCTCGMAAGCGTGGGTAGCAAAACAGATTAATATCCCTGGTAGTCCACGCCGTA	803
Db	92244	ACTGAGGTGGCAAAAGCGTGGGTAGCAAAACAGATTAATATCCCTGGTAGTCCACGCCGTA	92185
OY	804	AACGATGTTCTATGTGTGGTGGTCCCTTGAGGACTTAAGTACGACGCTTAAGCAATTAAG	863
Db	92184	AACCATGTTCTACCAAGTGGTGGGTCTTTTAAAGCTTAGTGAAGCAGGTTAACGCAATTAAG	92125
OY	864	TAGA CCGCTGGGAGTAGACGGCCGACAGGTTAAACCTCAATTAATGAACGGGGGCGCCG	923
Db	92124	TAGACCGCTGGGAGTAGACGGCCGACAGGTTAAACCTCAATTAATGAACGGGGGCGCCG	92065
OY	924	ACAAGCGGTGAGCATGTGTTTAATTCGATGCAACGCAAGAACTTACTTGCTTTGA	983
Db	92064	ACAAGCGGTGAGCATGTGTTTAATTCGATGCAACGCAAGAACTTACTTGCTTTGA	92005
OY	984	CATACACAGAACTTTGTAGAGATACGAGAGTGCCCTTGGAATTTGTGATACAGGTGCTGC	1043
Db	92004	CATAGTGAGAACTTTGCAAGATACGAGAGTGCCCTTGGAATTTGATACAGGTGCTGC	91945
OY	1044	ATGGCTGTCGCACTCGTGTGCTGAGAAATGTTGGGTTAACTCCCGCAACGAGCGCAACCC	1103
Db	91944	ATGGCTGTCGCACTCGTGTGCTGAGAAATGTTGGGTTAACTCCCGCAACGAGCGCAACCC	91885
OY	1104	TTGTCTTAGTTAACGACACTTCCGGGTGGGAACTCTTAAGGATTACTCCAGTGAACAACTG	1163
Db	91884	TTTTCTTAGTTAACCAACGACTCGGTGGGAACTCTTAAGGATTACTCCAGTGAACAACTG	91825
OY	1164	GAGGAAGCGGGAGCGACGTCAAGTCATATGCGCTTACGACAGAGGCTTAACACAGTGC	1223
Db	91824	GAGGAAGCGGGAGCGACGTCAAGTCATATGCGCTTACGACAGAGGCTTAACACAGTGC	91765
OY	1224	TACAAATGGTAGTACAGAGGCGACGTAACAGCGATGTATGGGAATCTCAAAAAAGCTTA	1283
Db	91764	TACAAATGGTTGTCAAAAGGGTTGCTACACAGCGATGTATGTAAATCTCAAAAAAGCCAA	91705
OY	1284	TCGTATGTCGAATTTGAGGTCTGCAACTCGACTCATATGATAGGATAGGATGCTATATGCG	1343
Db	91704	TCGTATGTCGAATTTGAGGTCTGCAACTCGACTCATATGATAGGATAGGATGCTATATGCG	91645
OY	1344	GGATCAGAAATCCGCGGTGAATACGTTCCCGGGCTTTGACACACCGCCGCTCACACAT	1403
Db	91644	AGATCAGAAATCTCGGTGAATACGTTCCCGGGCTTTGACACACCGCCGCTCACACAT	91585
OY	1404	GGGAGTTGATTCACACGAAGTGGTTAGCCTTAATGTAAGGCGATACCAACGGGTGTC	1463

Db	91584	CGAGGTGATCTCACCGAAGTGGTTAGCTTAACGCA-AAGGGGCATCCACAGGTGGG	91522
Qy	1464	GTGATGATACCTGGGGTGAAGTCGTAAACAAGGTACCGTAGGGGAACTTGGCGCTTGATAC	1523
Db	91525	GTGATGATACCTGGGGTGAAGTCGTAAACAAGGTACCGTAGGGGAACTTGGCGCTTGATAC	91465
Qy	1524	CTC 1526	
Db	91465	CTC 91463	
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; Sequence 1, Application US/09745476			
; Patent No. US20010029039A1			
; GENERAL INFORMATION:			
; APPLICANT: CANON INC.			
; TITLE OF INVENTION: Preparation of poly-hydroxyalkanoic Acid			
; FILE REFERENCE: 4351008			
; CURRENT APPLICATION NUMBER: US/09/745,476			
; CURRENT FILING DATE: 2000-12-26			
; NUMBER OF SEQ ID NOS: 1			
; SOFTWARE: Microsoft Word			
; SEQ ID NO 1			
; LENGTH: 1501			
; TYPE: DNA			
; ORGANISM: Pseudomonas jessenii p161 ; FERM P-17445			
US-09-745-476-1			
Query Match 72.0%; Score 1098.6; DB 3; Length 1501;			
Best Local Similarity 85.9%; Pred. No. 1,6e-288; Indels 9; Gaps 6;			
Matches 1287; Conservative 0; Mismatches 202;			
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Db	9	GGCGGCAAGGCTTAAACATGCAAGTCGAGCGG--ATGACGGAGCTTGCTCGTAATTCA	66
Qy	90	GAGCNGCCGGAAGGGTGATGAATTACTTAGGAATCTACCTAGTAGTGGGGATAGCTCGGG	149
Db	67	G---CGCGGACGGGTGATGAATAGCTTAGGAATCTGCTGTGATGGGGACAACGCTCTC	123
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Db	124	GAAAGGAGCCGTAATACCGATACGCTCTACGGAGAAACAGGGGACCTTCGGGCTTG	183
Qy	209	CGGATTATGATGAGCCCTAAGTCGGAATTAGCTTAGATGGTGGGTTAAAGGCTTACATGAGC	268
Db	184	CGGATTATGATGAGCCCTAAGTCGGAATTAGCTTAGTGTGATGGTGAATGGCTCACCAAGGCG	243
Qy	269	ACGATCTGTAGCTGCTCTGAGAGATGATCAGCCACAACCGGAGCTGAGACACGGGCCCGGA	328
Db	244	ACGATCTGTAGCTGCTCTGAGAGATGATCAGCTCACACTGGAATCTGAGACACGGTCCAGA	303
Qy	329	CT-CTAGGGAGGACAGATGGGGAAATTGACCAATGAGGGAAACCTTGATCCAGCAT	387
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Qy	388	GCAGCGTGTGTAAGAAAGGACCTTTGGTGTAAAGCACTTAAAGCAGTGAAGAAGACTC	447
Db	364	GCAGCGTGTGTAAGAAAGGCTTTCCGATTTTAAAGCACTTAAAGTGTGGAGAAAGGCGAT	423
Qy	448	TCGGTTAATACCCGGGGACGATGACATTAGCTGCAGAAATAGCACCGGCTTAATCTGTGTC	507
Db	424	TAACTTAATACGTTAGTGTTTTGAACGTTACCGACAGAAATAGCACCGGCTTAATCTGTGTC	483
Qy	508	CAGCAGCCCGGTTAATCAAGAGGTGCAAGCCTTAATCGGAATTACTGGGCTTAAAGCGA	567
Db	484	CAGCAGCCCGGTTAATCAAGAGGTGCAAGCCTTAATCGGAATTACTGGGCTTAAAGCGC	543
Qy	568	GGCGTAGGTGCTTGATGATGACATGTGAAATCCCGGGCTTAACTGGGAACTGCACTC	627
Db	544	GGCGTAGGTGCTTGATGATGATGAAAGCCCGGGCTTAACTGGGAACTGCACTTC	603

Oy	628	GAAATCTTAGGCTTAGAGTAGGAGGAGGAAATAGAAATTTCAAGGCTGACGGGTGAATG	687
Db	604	AAACTTGCACAGCTAGAGTAATGATGTAAAGGGGTGTGAAATTTCTGTGTACGGTGAATG	663
Oy	688	CGTAGAGATCTTGAGAGAAATACCGATGGCGAAGGCAAGCTTCTGGCATCATACTGACACTG	747
Db	664	CGTAGATATAGGAAGGAACACCGAGTGGCGAAGGCGAACCACTGGAATGATATGACACTG	723
Oy	748	AGGCTCGAAAGCGTGGGTAGCAAAACAGATTAAATACCTCTGGTAAGTCCACAGCCGTAAACG	807
Db	724	AGGTGCGAAAGCGTGGGAGCAAAACAGATTAAATACCTCTGGTAAGTCCACAGCCGTAAACG	783
Oy	808	ATGTCTACTAGTCGTTGGTCCCTTGAGGACTTAAGGACGACGTAAACGCAATTAAGTGA	867
Db	784	ATGTCTACTAGTCGTTGGTCCCTTGAGGACTTAAGTGGCGCAGCTAAACGCAATTAAGTGA	843
Oy	868	CCGCTGGGGAGTACGGCCGCAAGGTTAAACTCAATGAATTGACGGGGGCCGCAAA	927
Db	844	CCGCTGGGGAGTACGGCCGCAAGGTTAAACTCAATGAATTGACGGGGGCCGCAAA	903
Oy	928	GCGGTGAGACATGTGTTAAATTCGATGCAACCGCAAGAACTTTAACCCTGCTTGAACATA	987
Db	904	GCGGTGAGACATGTGTTAAATTCGATGCAACCGCAAGAACTTTAACCAGGCTTGAACATC	963
Oy	988	CACAGAACTCTTGATAGAGATACGAGAGTGCCTTGGGAAATTGTATACAGGTGCTGCATGG	1047
Db	964	CATATGAATCTTCCAGAGATGATGGGTGCTTGGGAAACATTAAGACAGAGTGTGCAATGG	1023
Oy	1048	CTGTGCTCAGCTCGTGTGCGAGATGTGGGTTAAGTCCCGCAACGAGCCGCAACCTTGT	1107
Db	1024	CTGTGCTCAGCTCGTGTGCGAGATGTGGGTTAAGTCCCGCAACGAGCCGCAACCTTGT	1083
Oy	1108	CCTTAGTTACCAAGCAC-TTCGGGTGGGAATCTTAAGATATCTGCAATGCAACATGAG	1166
Db	1084	CCTTAGTTACCAAGCACGTAATGTTGGGCATCTTAAGGAGATCTGCGGTGACAAACCGAG	1143
Oy	1167	GAAAGCGGGAGCAAGCTCAAGTCAATGAGCCCTTACGACCAAGGGCTACACAGTGTAC	1226
Db	1144	GAAAGCGGGAGTACCTCAAGTCAATGAGCCCTTACGAGCTGAGGCTACACAGTGTAC	1203
Oy	1227	AATGTAGGTACAGAGGGGACGTAACAACGATGTGTCGAATCTTCAAAAAGCTAATCG	1286
Db	1204	AATGTAGGTACAGAGGGGTGCAAGCCGAGAGGTGAGCTAATCCACAACAAACGATTCG	1263
Oy	1287	TAGTCCAGATTGGAATCTGCAATCGACTCCAGATCAAGATAGGAATCGCTAAGTAATCGGGA	1346
Db	1264	TAGTCCAGATTGGAATCTGCAATCGACTCCAGATCAAGATAGGAATCGCTAAGTAATCGGGA	1323
Oy	1347	TCAGAAATGCGCGGTGAATCGTTCCCGGGCCCTTGTACACACGCGCTGACACCATGGG	1406
Db	1324	TCAGAAATGCGCGGTGAATCGTTCCCGGGCCCTTGTACACACGCGCTGACACCATGGG	1383
Oy	1407	AGTTGATTGACCCAGAAATGTGTTAGCTTA-CTTAGTAGGGGCGATACCAACGGTGTGCT	1465
Db	1384	AGTTGATTGACCCAGAAATGTGTTAGCTTA-CTTAGTAGGGGCGATACCAACGGTGTGCT	1443
Oy	1466	CGATGACTGGGGTGAAGTGTGTAACAAGTACCGGTAGGGGAACCTGGGGCTGGATCAC	1523
Db	1444	TCATGACTGGGGTGAAGTGTGTAACAAGTACCGGTAGGGGAACCTGGGGCTGGATCAC	1501

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; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii Pl61 ; BP-7376
; FEATURE:
; US-09-821-016-5

Query Match      72.0% Score 1098.6 ; DB 3 ; Length 1501 ;
Beet Local Similarity 85.9% ; Pred. No. 1.6e-286 ;
Matches 1287 ; Conservative 0 ; Mismatches 202 ; Indels 9 ; Gaps 6

Oy 30 GGGCGAGGGCTTAACACATGCAAGTCGAGCGGAAACAGATGATGCTTGCTATTAAGCCATC 89
Db 9 GGGCGAGGGCTTAACACATGCAAGTCGAGCGG--ATGACGGAGCTTGCTCTGATTAATCA 66
Oy 90 GAGCGCGCGACGGGTGAGTAATACTTAGAATCTTACTAGTGGGGGATAGCTCGGG 149
Db 67 G---CGGGCGACGGGTGAGTATGCTTAGAATCTGCTCGTAGTGGGGGACAAACGTCATC 123
Oy 150 GAAACTCGAATTAATATCCGCATAGCT-CTACGGGAGAAACAGGGGANTCATTAAGACCTTG 208
Db 124 GAAAGGGAAGCTAATACCGCATAGCTCTTACGGGAGAAAGCGGGGACCTTGCGGCTTGG 183
Oy 209 CGCTATTGATGAGGCTTAAGTCGATTAAGTATGATGATGGGTAAAGGCTACATAGCGG 268
Db 184 CGCTATCGATGAGGCTTACGTGCGATTAGCTTAGTGGTGAAGTAAATGCTCACAAAGGCG 243
Oy 269 ACGATCTGTAGCTGCTGAGAGAGATGATCAAGCCACACCGGAGCTGAGACAGCGCCGGA 328
Db 244 ACGATCCGTAATCTGGTCTGAGAGGATGATCAGTCACTGGAATCTGAGACAGGATCAGA 303
Oy 329 CT-CTACGGGAGGCGACGATGGGGAAATTTGGACATATGANGGAAACCTGATTCAGCCT 387
Db 304 CTCTACCGGAGGCGACGATGGGGAAATTTGGACATATGAGGCGAAAGCCCTGATTCAGCCT 363
Oy 388 GCCCGGTGTGGAAGAAAGCCCTTTGGTGTAAACACTTTAAGCAGTGAAGAGAACTCT 447
Db 364 GCCCGGTGTGGAAGAAAGGCTCTCGGATTTGAAAGCATTTTAAGTTGGAGGAAGGGCAT 423
Oy 448 TCGGTAAATACCCGGGAGCATGATGATTAAGCTGCAGAAATAGCACCGGCTAACTCTGTGC 507
Db 424 TAACCTAATAGTATGATGTTTTTGAACGTTACGACAGAAATAGCACCGGCTAACTCTGTGC 483
Oy 508 CAGCAGCCGCGGTAAATACAGAGGGTGCAGAGCTTAATCGGAATTAATCTGGGCGTAAAGCGA 567
Db 484 CAGCAGCCGCGGTAAATACAGAGGGTGCAGAGCTTAATCGGAATTAATCTGGGCGTAAAGCGC 543
Oy 568 GCGTAGGTGCTGATTAAGTACGATGTAATAATCCCGGGCTTAACCTGGGAACTGCATCT 627
Db 544 GCGTAGGTGCTTTTGAATGTGAGATGTAATAACCCCGGGCTCAACCTGGGAACTGCATTC 603
Oy 628 GAAACTGTGAGGCTAGATGAGTGAAGAGGAGTAGAATTCAGGTGATGAGCGGTGAATG 687
Db 604 AAAACTGACAACTAGATGATGATGATGAGGGTGTGGAATTTCTGTGTAGCGGTGAATG 663
Oy 688 CGTAGAGATCTGAAGAAATACCGATGGCGGAGGACAGCTTCTGGCATCATTACTGACACTG 747
Db 664 CGTAGATATAGGAAGAAACACCAAGTGGCGAAGCGCACCACTGGACTGATTACTGACACTG 723
Oy 748 AGGCTCGAAAGGTGGGTAGCAAAACAGATTGATTAACCTTGTAAGTCCACGCGCTAAACG 807
Db 724 AGGTGCGAAAGGTGGGAGCAAAACAGATTGATTAACCTTGTAAGTCCACGCGCTAAACG 783
Oy 808 ATGTCTAATAGCTGTGGGTCCCTTGAAGGACTTAGTGAACGACGTAACCGCAATTAAGTAGA 867
Db 784 ATGTCAATAGCTGTGGGAGCTTGAAGCTCTTAATGTGGGCAAGCTAAGCAATTAAGTTGA 843
Oy 868 CCGCTGGGAGTACGCGCGCAAGGTTAAACTCAATGATTAATGACGGGGGCCGACAA 927
Db 844 CCGCTGGGAGTACGCGCGCAAGGTTAAACTCAATGATTAATGACGGGGGCCGACAA 903
Oy 928 GCGGTGAGACATGTGTTTTAATTCGATGCAAGCGCAAGAACTTAACCTGAGTCTTGACATG 987

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Db      904 GCGGTGAGCATGTGTTTAATTCGAAGCAACCGAAGAACTTTACAGGCTTTGACATC 963
Qy      988 CACAGATCTTGTAGATACAGAGAGTGCCTTGGGAAATTGTGATACAGTGTGTGATG 1047
Db      964 CAATGAACCTTCCAGAGATGATGATGGTCTTCGGGAACTTTAGACAGGTGTGTGATG 1023
Qy      1048 CTGTCTGACCTGTGTCTGTGATGTGGTTAAGTCCCGACAGAGCAACCTTGT 1107
Db      1024 CTGTCTGACCTGTGTCTGTGATGTGGTTAAGTCCCGTACAGAGCGCAACCTTGT 1083
Qy      1108 CTTTACTTACAGACAC- TTGGGTGGAACTTTAGAGATCTGCCAGTGAACAACTGAG 1166
Db      1084 CTTTACTTACAGACAGTAAATGTTGGGCACTTTAGAGACTGCCGTGAACAAACGGAG 1143
Qy      1167 GAAGGGGGGAGAGAGCTCAAGTATGAGCCCTTACAGAGGGGTACACAGCTGCTAC 1226
Db      1144 GAAGGGGGGAGATACGTCAAGTATGAGCCCTTACAGAGGGGTACACAGCTGCTAC 1203
Qy      1227 AATGTAGGTACAGAGGGGAGCTACAGAGATGTATGGAATCTCAAAAAGCTTATG 1286
Db      1204 AATGTAGGTACAGAGGGGTTGCCAAGCCGGAGTGGAGTAACTCCACAAAACGATG 1263
Qy      1287 TAGTCCAGATGTGAGTCTGCACTGCACTTCATGAAGTAAAGAAATCGCTAGTAACTGCGGA 1346
Db      1264 TAGTCCGAGTCCGAGTCTGCACTGCACTGCGAAGTGGAAATCGCTAGTAACTCGGAA 1323
Qy      1347 TCAGAAATGCGCGGTGAATACGTTCCGGGCTTTGACACACCGCCGTCACACCACTGG 1406
Db      1324 TCAGAAATGCGCGGTGAATACGTTCCGGGCTTTGACACACCGCCGTCACACCACTGG 1383
Qy      1407 AGTTGATTCACAGAGAGTGTAGCTTAA-CTTAGTGAAGGGGATCACACGCTGTGT 1465
Db      1384 AGTGGGTTCACACAGAGATGATGATGCTTACCTTGGGAGAGCGTTACACGCTGTGT 1443
Qy      1466 CGATGACTGGGTGAGTGTGAACAAAGTACCGTTAGGGGAACTTGGCTGTGATC 1523
Db      1444 TCATGACTGGGTGAGTGTGAACAAAGTACCGTTAGGGGAACTTGGCTGTGATC 1501

RESULT 4
US-09-748-205-1
/ Sequence 1, Application US/09748205
/ Patent No. US200202253A1
/ GENERAL INFORMATION:
/ APPLICANT: Canon Inc.
/ TITLE OF INVENTION: Polymyxin derivatives and manufacturing method, and microorganism
/ TITLE OF INVENTION: those are used for the method.
/ FILE REFERENCE: 4351009
/ CURRENT APPLICATION NUMBER: US/09748,205
/ CURRENT FILING DATE: 2000-12-27
/ NUMBER OF SEQ ID NOS: 1
/ SEQ ID NO 1
/ LENGTH: 1501
/ TYPE: DNA
/ ORGANISM: Pseudomonas jessenii 161 strain.
US-09-748-205-1
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Query Match 72.0%; Score 1098.6; DB 3; Length 1501;  
Best Local Similarity 85.9%; P-adj. No. 1.6e-288;  
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

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Qy      30 GCGGAGAGCTTAAACATGATGAGAGGAGAAAGATGATGCTTGTGATTAAGCGTC 89
Db      9 GCGGAGAGCTTAAACATGATGAGAGGAG--ATGACGGAGCTTGTCTCTGAATTGA 66
Qy      90 GAGGAGCGGAGCGGTGATTAATCTTGAATCTTAACTGATGAGGAGATGCTCGAG 149
Db      67 G---CGGCGGAGCGGTGATTAATCTTGAATCTTAACTGATGAGGAGATGCTCG 123
Qy      150 GAAGCTCGATTAATACCGCATACGT-CTACGGGAGAAAGACAGGGGNTCATTAAGACTTG 208
Db      124 GAAGGAGAGCGTAAATACCGCATACGTCTTACGGGAGAAAGACAGGGGACCTTGGGCTTG 183
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Qy      209 CCGTATTAGATGAGCTTAAAGTGTGATTAAGATGATGTTGGGTAAAGGCTTACATGCG 268
Db      184 CCGTATTAGATGAGCTTAAAGTGTGATTAAGATGATGTTGGGTAAAGGCTTACATGCG 243
Qy      269 ACGATCTGTAGCTGTGAGAGATGATCAAGCAACCGGAGCTTGAACAGCGCCGGA 328
Db      244 ACGATCTGTAGCTGTGAGAGATGATCAAGTCACTGGAATGAGACAGCGTCAAG 303
Qy      329 CT-CTAACGGAGAGGAGAGTGGGAAATATGGAACAATGAGGGAACCTTGAATCCAGCAT 387
Db      304 CTCTAACGGAGAGGAGAGTGGGAAATATGGAACAATGAGGGAACCTTGAATCCAGCAT 363
Qy      388 GCGGCTGTGTGAAGAGGCTTTTGTGTGAACCACTTTAAAGCAGTGAAGAAACTCT 447
Db      364 GCGGCTGTGTGAAGAGGCTTTTGTGTGAACCACTTTAAAGCAGTGAAGAAAGGCT 423
Qy      448 TCGGTTAAATACCGGGGAGCATGACATTAGCTGAGAAATTAAGCACCGGCTTAACTGTG 507
Db      424 TAACTTAAATACCGTTAGTGTGTTTGAAGTAAAGCAAGAAATTAAGCACCGGCTTAACTGTG 483
Qy      508 CAGCAGCGCGGTAAATACAGAGGTGCAAGCTTAAATGGAATTAATGAGGCTTAAAGCA 567
Db      484 CAGCAGCGCGGTAAATACAGAGGTGCAAGCTTAAATGGAATTAATGAGGCTTAAAGCG 543
Qy      568 GCGTATGAGCTGTGATTAAGTCAAGTGTGAAATCCCGGAGCTTAACTGAGAACTGATCT 627
Db      544 GCGTATGAGCTGTGATTAAGTGTGAAATCCCGGAGCTTAACTGAGAACTGATCTG 603
Qy      628 GAAGCTGTGAGCTGATGAGTGAAGAGGAAATTAAGTTCAGGTGTAAGGCTGAAATG 687
Db      604 AAAGCTGCAAGCTGATGATGATGAGAGGTGAGTGAATTTCTGTGTAAGGCTGAAATG 663
Qy      688 CCGTAAAGTTCGAAGAAATTAAGTGAAGGAGGAGCTTCTGAGATTAATGACATG 747
Db      664 CCGTAAATTAAGAAAGAAACACCAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 723
Qy      748 AGGCTGGAAGGAGTGTGAGCAACAGGATTAAGTATGATGATGATGATGATGATGATGATG 807
Db      724 AGGCTGGAAGGAGTGTGAGCAACAGGATTAAGTATGATGATGATGATGATGATGATGATG 783
Qy      808 ATGTCTACTAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 867
Db      784 ATGTCTACTAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 843
Qy      868 CCGCTGTGAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 927
Db      844 CCGCTGTGAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 903
Qy      928 GCGGTGAGAGTGTGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 987
Db      904 GCGGTGAGAGTGTGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 963
Qy      988 CACAGAACTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1047
Db      964 CAATGAACCTTCCAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1023
Qy      1048 CTGTCTGACCTGTGTCTGTGATGTGGTTAAGTCCCGACAGAGCAACCTTGT 1107
Db      1024 CTGTCTGACCTGTGTCTGTGATGTGGTTAAGTCCCGTACAGAGCGCAACCTTGT 1083
Qy      1108 CTTTACTTACAGACAC- TTGGGTGGAACTTTAGAGATCTGCCAGTGAACAACTGAG 1166
Db      1084 CTTTACTTACAGACAGTAAATGTTGGGCACTTTAGAGACTGCCGTGAACAAACGGAG 1143
Qy      1167 GAAGGGGGGAGAGAGCTCAAGTATGAGCCCTTACAGAGGGGTACACAGCTGCTAC 1226
Db      1144 GAAGGGGGGAGATACGTCAAGTATGAGCCCTTACAGAGGGGTACACAGCTGCTAC 1203
Qy      1227 AATGTAGGTACAGAGGGGAGCTACAGCGATGTGATGAGTGAATCTCAAAAAGCTTATG 1286
Db      1204 AATGTAGGTACAGAGGGGAGCTACAGCGATGTGATGAGTGAATCTCAAAAAGCTTATG 1263
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1287 TAGTCAGATTGAGTCTGCACTCGACTCCATGAGTAGAATCGCTAATTCGCGA 1346  
1264 TAGTCCGAGTCGAGTCTGCACTCGACTCGTGAAGTCGAAATCCGTAATTCGCGA 1323  
1347 TCAGAAATGCCGCGGTGAAATCGTCCCGGCGCTTGTACACACCGCCGTCACATGGG 1406  
1324 TCAGAAATGTCGCGGTGAAATCGTCCCGGCGCTTGTACACACCGCCGTCACATGGG 1383  
1407 AGTTGATTGACCAAGAGTGTGCTTA-CTTAGTAGAGGCGATCACCAGGTGTGT 1465  
1384 AGTGGGTGACCAAGAGTGTGCTTA-CTTAGTAGAGGCGATCACCAGGTGTGT 1443  
1466 CGATGACTGGGAGTGTGCTTA-CTTAGTAGAGGCGATCACCAGGTGTGT 1523  
1444 TCATGACTGGGAGTGTGCTTA-CTTAGTAGAGGCGATCACCAGGTGTGT 1501

RESULT 5  
US-09-793-920A-1  
Sequence 1, Application US/09793920A  
Patent No. US20020065389A1  
GENERAL INFORMATION:  
APPLICANT: Canon Inc.  
TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxyethylalkanoic acid as  
FILE REFERENCE: 4396021  
CURRENT APPLICATION NUMBER: US/09/793,920A  
NUMBER OF SEQ ID NOS: 1  
SEQ ID NO 1  
LENGTH: 1501  
TYPE: DNA  
ORGANISM: Pseudomonas jessenii 161 strain.  
US-09-793-920A-1

Query Match 72.0%; Score 1098.6; DB 3: Length 1501;  
Best Local Similarity 85.9%; Pred. No. 1.6e-288;  
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

30 GGGCGGAGGCTTAACATGCTGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 89  
9 GGGCGGAGGCTTAACATGCTGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 66  
90 GAGCGCGGAGGCTTAACATGCTGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 149  
67 G---CGGCGGAGGCTTAACATGCTGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 123  
150 GAAACTGGAATTATACCGGATACGT-CTACGGGAGAAAGCAGGCGGCTTGAATTAAGCGTC 208  
124 GAAAGGAGCGCTTAATACCGGATACGTCTACGGGAGAAAGCAGGCGGCTTGAATTAAGCGTC 183  
209 CGCTATTGATGAGCTTAATGCTGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 268  
184 CGCTATTGATGAGCTTAATGCTGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 243  
269 ACGATCTGATGAGCTTAATGCTGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 328  
244 ACGATCTGATGAGCTTAATGCTGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 303  
329 CT-CTAGGAGAGGAGGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 387  
304 CTCTACGAGAGGAGGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 363  
388 GCGCGGTGTGAGAGGAGGCTTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 447  
364 GCGCGGTGTGAGAGGAGGCTTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 423  
448 TCAGTAAATACCGGAGAGGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 507  
424 TAACCTAATACGTTAGGTTTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 483  
508 CAGAGCGGCGGAGTGAAGGCGGAAAGCATGATGCTTGAATTAAGCGTC 567

484 CAGCAGCCGCGGTAATACAGAGGCTCAAGCGTTAATCGAAATTAATCGGCGGTAAAGCGC 543  
568 GCGTAGGCTGCTTGAATTAATGAGTGAATTCGCGGCTTAACTCGGAGAGTGCATCT 627  
544 GCGTAGGCTGCTTGAATTAATGAGTGAATTCGCGGCTTAACTCGGAGAGTGCATCT 603  
628 GAAATGTTAGGCTTAATGAGTGAAGGAGGAAATTAATTCAGTGTAGCGGTGAATG 687  
604 ABAATGACAGGCTTAATGAGTGAAGGAGGAAATTAATTCAGTGTAGCGGTGAATG 663  
688 CGTAGAGATCTGAAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAGCGGTGAATG 747  
664 CGTAGAGATCTGAAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAGCGGTGAATG 723  
748 AGGCTGAAAGGCTGAGTGAAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 807  
724 AGGCTGAAAGGCTGAGTGAAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 783  
808 ATGCTAATAGTCTGAGGCTTGAAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 867  
784 ATGCTAATAGTCTGAGGCTTGAAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 843  
868 CCGCTGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 927  
844 CCGCTGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 903  
928 GCGGTGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 987  
904 GCGGTGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 963  
988 CACAGATCTGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1047  
964 CACAGATCTGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1023  
1048 CTGCTGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1107  
1024 CTGCTGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1083  
1108 CTTAGTGAATGAGGAGTGAAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1166  
1084 CTTAGTGAATGAGGAGTGAAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1143  
1167 GAGGCGGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1226  
1144 GAGGCGGAGGAGTGAAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1203  
1227 AATGTAAGTGAAGGAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1286  
1204 AATGTAAGTGAAGGAGGAGGAGGAAATACGAGTGAAGGAGGAAATTCAGTGTAG 1263  
1287 TAGTCCAGATTGAGTCTGCACTGCACTGCAATGAAGTGAAGTTCGTAATTCGCGGA 1346  
1264 TAGTCCAGATTGAGTCTGCACTGCACTGCAATGAAGTGAAGTTCGTAATTCGCGGA 1323  
1347 TCAGAAATGCCGCGGTGAAATCGTCCCGGCGCTTGTACACACCGCCGTCACATGGG 1406  
1324 TCAGAAATGCCGCGGTGAAATCGTCCCGGCGCTTGTACACACCGCCGTCACATGGG 1383  
1407 AGTTGATTGACCAAGAGTGTGCTTA-CTTAGTAGAGGCGATCACCAGGTGTGT 1465  
1384 AGTGGGTGACCAAGAGTGTGCTTA-CTTAGTAGAGGCGATCACCAGGTGTGT 1443  
1466 CGATGACTGGGAGTGTGCTTA-CTTAGTAGAGGCGATCACCAGGTGTGT 1523  
1444 TCATGACTGGGAGTGTGCTTA-CTTAGTAGAGGCGATCACCAGGTGTGT 1501

RESULT 6  
US-09-951-720-1  
Sequence 1, Application US/09951720  
Patent No. US20020160467A1  
GENERAL INFORMATION:  
APPLICANT: Canon Kabushiki Kaisha

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? TITLE OF INVENTION: Polyhydroxyalkanoate and Manufacturing Method Thereof
? FILE REFERENCE: 4477001
? CURRENT APPLICATION NUMBER: US/09/951,720
? CURRENT FILING DATE: 2000-09-14
? PRIOR APPLICATION NUMBER: JP 279900/2000
? JP 378827/2000
? JP 165338/2001
? JP 165509/2001
? JP 275063/2001
? PRIOR FILING DATE: 2000-09-14
? 2000-12-13
? 2001-05-31
? 2001-05-31
? 2001-09-11
? NUMBER OF SEQ ID NOS: 1
? SEQ ID NO 1
? LENGTH: 1501
? TYPE: DNA
? ORGANISM: Pseudomonas jeikei strain.
? US-09-951-720-1

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Query Match	72.0%;	Score 1098.6;	DB 3;	Length 1501;
Best Local Similarity	85.9%;	Pred. No. 1.6e-288;		
Matches 1287;	Conservative	0;	Mismatches 202;	Indels 9; Gaps 6;

Qy	3	GGGGCAGGCTTAACACATGCAAGTGCAGCGGAAAGATGAAGCTTCTATTGAGGCTC	89
Db	9	GGCGCAGGCTTAACACATGCAAGTGCAGCGG--ATGACGGAGCTTCTCTGAATTCA	66
Qy	90	GAGCGCCGAGCGGGTAGTAACTTAAGAACTTAACCTTAGTGGGGGATAGCTCGGG	149
Db	67	G---CGGCGAGCGGGTAGTAAAGCTTAAGAACTTGGCTGTGATGGGGGCAACGCTTC	123
Qy	150	GAAACTGGAATTAAATCCGCATTCG--CTACGGGAGAAAGACAGGGGAGTCATTAAACCTTG	208
Db	124	GAAGGGAACCTTAATACCGCATACGTCTTAACGGAGAAAGACAGGGGACCTTCGGGCTTG	189
Qy	209	CGCTATTAGATGAGCCTTAAGTCGATTAGCTAGATGTGGGGTAAAGGCTTACCATGGCG	268
Db	184	CGCTATCAGATGAGCCTTAAGTCCGATTACCTAGTTGGTAGGTAATGGCTATCCAAAGCG	243
Qy	269	ACCATCTGTAGCTGTCTGAGAGATGATACCAACACCGGGACTGAAACACGCGCCGA	328
Db	244	ACGATCCGTAACTGTGTCTGAGAGATGATACGTCACTGGAATCTGAACACGGTCCAGA	303
Qy	329	CT--CTACGGAGGACAGCAGTGGGGAATATTGACATATGGAGGGAACCTGTATCCAGCAT	387
Db	304	CTCCTAAGGGAAGGACACAGTGGGGAATATTGACATATGGGCGAAAGCCTGATCCAGCAT	363
Qy	388	GCCGCGTGTGTGAAGAAAGCCTTTTGGTTTAAAGCATTTAAGCATGAAGAAAGACTT	447
Db	364	GCCGCGTGTGTGAAGAAAGCTTTCGATTGTAAAGCATTTAAGTTGGAGAGAAAGGCAT	422
Qy	448	TGCGTTAATACCCGGGGAAGCATGATCAATTAGCTGACGAATTAAGCACCGGCTTAACCTGAGC	507
Db	424	TAACTTAATACCTTAGTGTTTTACCTTAACGACGAATTAAGCACCGGCTTAACCTGTGAC	483
Qy	508	CAGCAGCCGCGGTAAATACAGAGGGTCAACGTTAATCGGAATTATCGGCGGTAAACGA	567
Db	484	CAGCAGCCGCGGTAAATACAGAGGGTCAACGTTAATCGGAATTATCTGGCGGTAAAGGC	543
Qy	568	GCGTAGTGGCTTGATTAAGTCAGATGTGTAAATCCCGGGCTTAACCTGGGAATGCACTCT	622
Db	544	GCGTAGTGGCTTTGTTAAGTGTGATGTGAAGCCCGGGCTTAACCTGGGAATGCAATTC	603
Qy	628	GAAACTGTTAGGCTAGATGATGAGAGAGGAAGTAATTTCAAGGTAGACGGTGAATG	687
Db	604	AAAACTGCAAGCTAGATGTGTGAAGGGTGTGAATTTCTGTGAAGCGTGAATG	663
Qy	688	CGTAGAGATTGAAGGAATACGATGGCGAAGGCAAGCTTCTCGGCATATATGCACTG	747
Db	664	CGTAGAATATGAAGGAACCAAGTGGCGAAGGCAACCTGGACTGATATCTAACCTG	722

OY	748	AGGCTCGAAACGCGGGGAGAGAAA	CAGGATTAGATACCTGCTAGTCCACGCCGTAACG	807
Db	724	AGGTGCGAAACGCTGGGGAGCAAC	AGSATTAGATACCTGTGATCCACGCCGTAACG	783
OY	808	ATGTCTACTACTCGTGGGTCCTT	GTAGGACTTAGTGAACGACTTAACGCAATAGTAGA	867
Db	784	ATGTCACTACCCGTTGGAGCCTT	TAGCTTGTAGTGGCGACGATTACGCAATTAGTTGA	843
OY	868	CCGCTGGGGAGTACGCGCCGCA	AGTTAAAACTCAATGAATTGACGGGGGCCCGCACAA	927
Db	844	CCGCTGGGGAGTACGCGCCGCA	AGTTAAAACTCAATGAATTGACGGGGGCCCGCACAA	903
OY	928	GGGGTGGAGCATGTGGTTTAATT	CGATGCAACGGGAACAACCTTACCTGGTCTTGACATA	987
Db	904	GGGGTGGAGCATGTGGTTTAATT	CGATGCAACGGGAACAACCTTACCTGGTCTTGACATC	963
OY	988	CACAGAACTCTGTAGAGATAC	GAGAGTGCCCTTCGGGAATTGTGATACAGTGTGCATGG	1047
Db	964	CAATGAACCTTCCAGAGATGGA	TGGGTGCTTCGGGAACATTTGAGACAGGTGTCTGCATGG	1023
OY	1048	CTGTGTCAAGCTCGTGTGTGAG	ATGTTGGTTAAATGCCGCAACGAGCGCAACCTTGT	1107
Db	1024	CTGTGTCAAGCTCGTGTGTGAG	ATGTTGGTTAAATGCCGTAACGAGCGCAACCTTGT	1083
OY	1108	CCTTAGTTTACAGAGAC- TT	CGGGTGGGAACCTTAAGATATCTGACAGTGAACAACTGGAG	1166
Db	1084	CCTTAGTTTACAGAGACCTTA	TATGTGTGGGCACTCTTAAGAGACTGCGGTGAACAAACGGAG	1143
OY	1167	GAAAGCGGGGACGACGTCAT	TCATTCATGAGCCCTTACACACAGGGCTACACACGTGTAC	1226
Db	1144	GAAAGTGGGGATGACGTCAAT	CAATCAATGAGCCCTTACGGGCTGAGGCTACACACGTGTAC	1203
OY	1227	AATGTAGGTACAGAGGGACG	CTACACGCAATGTATGCGAATTTCAAAAACCTTATCG	1286
Db	1204	AATGTGTGCTCAAGGGGTTG	CCAAAGCCGAGGGTGAAGCTTAATCCCAAAAACCGATCG	1263
OY	1287	TAGTCCAGATTGGAGCTTGCA	ACTCGACTCATGAAGTAGAATTCGTAGTTATGGCGA	1346
Db	1264	TAGTCCGATGCAAGTCTGCA	ACTCGACTGTGAAGTCGAAATGTCTAGTATGCGAA	1323
OY	1347	TCAGAAATGCGCGGATGAAT	AGTTCGCCGGGACCTTGTACACACGCCCGCTCACACCATGGG	1406
Db	1324	TCAGAAATGCGCGGATGAAT	AGTTCGCCGGGATGACTTCGCCGGGCTTGTACACACGCCCGCTCACACCATGGG	1383
OY	1407	AGTTGATTGACCAAGAGTGT	AGCTTAA-CTTAGTGAAGGCGATCAACACGATGTGAT	1465
Db	1384	AGTGGGTTGACCAAGAGTGT	AGCTTAA-CTTCGAGGAGACGGTTACCAACGGGTGAT	1443
OY	1466	CGATGACCTGGGGTGAAGTCT	TACACAGGTACCCGTAAGGGGAAACCTGCGCGCTGTGATCAC	1523
Db	1444	TCATGACCTGGGGTGAAGTCT	TACACAGGTACCCGTAAGGGGAAACCTGCGCGCTGTGATCAC	1501

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RESULT 7
US-09-791-610-1
: Sequence 1, Application US/09791610
: Publication No. US20030100084A1
: GENERAL INFORMATION:
: APPLICANT: Canon Inc.
: TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxybenzoylalkanoic acid as
: TITLE OF INVENTION: monomer unit, and method for producing the same.
: FILE REFERENCE: 4396021
: CURRENT APPLICATION NUMBER: US/09/791,610
: CURRENT FILING DATE: 2002-09-30
: NUMBER OF SEQ ID NOS: 1
: SEQ ID NO 1
: LENGTH: 1501
: TYPE: DNA
: ORGANISM: Pseudomonas jessenii 161 strain.
US-09-791-610-1
Query Match      72.0%; Score 1098.6; DB 3; Length 1501;
Best Local Similarity 85.9%; Pred. No. 1,6e+28;

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Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;					
Qy	30	GGCGGAGGCTTAACATGCAAGTGAAGGAAAGATGATGCTTGTATTAAGCCGC	89		
Db	9	GGCGGAGGCTTAACATGCAAGTGAAGGAAAGATGATGCTTGTATTAAGCCGC	66		
Qy	90	GAGCAGCCGAGGAGTGAATTAATCTTAAGAACTTCACTAGTATGAGGAGATGATCGGG	149		
Db	67	G---CGCGGAGGAGTGAATTAATGCTTAAGAACTTCCCTGATGATGAGGAGCAACGCTC	123		
Qy	150	GAAGCTGCAATTAATACCGCATACGT-CTACGGAGAAAGACAGGGGATCATTAGACCTTG	208		
Db	124	GAAGGAGGAGCTTAATACCGCATACGTCTACGGAGAAAGACAGGGGATCATTAGACCTTG	183		
Qy	209	CGCTATTAAGATGAGCTTAAGTGGATTAAGTATGATGATGATGATGATGATGATGATG	268		
Db	184	CGCTATTAAGATGAGCTTAAGTGGATTAAGTATGATGATGATGATGATGATGATGATG	243		
Qy	269	AGGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	328		
Db	244	AGGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	303		
Qy	329	CT-CTACGGAGAGGAGGAGTGAATTAATGCAATGAGGAGGAGGAGGAGGAGGAGGAGG	387		
Db	304	CTCTTAAGGAGGAGGAGGAGTGAATTAATGCAATGAGGAGGAGGAGGAGGAGGAGGAGG	363		
Qy	388	GGCGGAGTGTGAAGAGGCTTTTGGTGTAAAGCATTTAAAGCATGAGTGAAGAGCTCT	447		
Db	364	GGCGGAGTGTGAAGAGGCTTTTGGTGTAAAGCATTTAAAGCATGAGTGAAGAGCTCT	423		
Qy	448	TGGGTTAATACCGGAGGAGGAGTGAATTAATGCAATGAGGAGGAGGAGGAGGAGGAGG	507		
Db	424	TAACTTAATACCGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	483		
Qy	508	CAGACAGCCGAGGATTAACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	567		
Db	484	CAGACAGCCGAGGATTAACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	543		
Qy	568	GGGATGAGGCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	627		
Db	544	GGGATGAGGCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	603		
Qy	628	GAAGCTGATTAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	687		
Db	604	GAAGCTGATTAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	663		
Qy	688	CGTGAAGATCTGAAGATTAACGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	747		
Db	664	CGTGAAGATCTGAAGATTAACGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	723		
Qy	748	AGGCTGAGAAAGCTGAGTGAAGAAAGATTAATTAATTAATTAATTAATTAATTAATTAATTA	807		
Db	724	AGGCTGAGAAAGCTGAGTGAAGAAAGATTAATTAATTAATTAATTAATTAATTAATTAATTA	783		
Qy	808	ATGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	867		
Db	784	ATGCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	843		
Qy	868	CCGCTGAGGAGGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	927		
Db	844	CCGCTGAGGAGGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	903		
Qy	928	GGGATGAGGAGGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	987		
Db	904	GGGATGAGGAGGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA	963		
Qy	988	CACAGAACTTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	1047		
Db	964	CAATGAACCTTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	1023		
Qy	1048	CTGCTGAGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA	1107		
Db	1024	CTGCTGAGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA	1083		

Qy	1108	CCTTAGTACAGAC-TCGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1166		
Db	1084	CCTTAGTACAGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1143		
Qy	1167	GAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1226		
Db	1144	GAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1203		
Qy	1227	ATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	1286		
Db	1204	ATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	1263		
Qy	1287	TAGTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA	1346		
Db	1264	TAGTCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA	1323		
Qy	1347	TCAGAAATGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1406		
Db	1324	TCAGAAATGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1383		
Qy	1407	AGTGAATGACAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1465		
Db	1384	AGTGAATGACAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	1443		
Qy	1466	CGATGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1523		
Db	1444	TCATGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	1501		

## RESULT 8

US-10-218-519-5  
; Sequence 5, Application US/10218519  
; Publication No. US20030049806A1  
; GENERAL INFORMATION:  
; APPLICANT: Yano, Tetsuya  
; APPLICANT: Imamura, Takeshi  
; APPLICANT: Suda, Sakae  
; APPLICANT: Honma, Tsutomu  
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme  
; FILE REFERENCE: 03500.015225.1  
; CURRENT APPLICATION NUMBER: US/10/218,519  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/821,016  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: Microsoft Word  
; SEQ ID NO 5  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii p161 ; BP-7376  
; FEATURE: cdna to 16S rRNA  
US-10-218-519-5

Query Match 72.0%; Score 1098.6; DB 5; Length 1501;					
Best Local Similarity 85.9%; Pired. No. 1,6e-288; Indels 9; Gaps 6;					
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;					
Qy	30	GGCGGAGGCTTAACATGCAAGTGAAGGAAAGATGATGCTTGTATTAAGCCGC	89		
Db	9	GGCGGAGGCTTAACATGCAAGTGAAGGAAAGATGATGCTTGTATTAAGCCGC	66		
Qy	90	GAGCAGCCGAGGAGTGAATTAATCTTAAGAACTTCACTAGTATGAGGAGATGCTCGGG	149		
Db	67	G---CGCGGAGGAGTGAATTAATGCTTAAGAACTTCCCTGATGATGAGGAGCAACGCTC	123		
Qy	150	GAAGCTGCAATTAATACCGCATACGT-CTACGGAGAAAGACAGGGGATCATTAGACCTTG	208		
Db	124	GAAGGAGGAGCTTAATACCGCATACGTCTACGGAGAAAGACAGGGGATCATTAGACCTTG	183		
Qy	209	CGCTATTAAGATGAGCTTAAGTGGATTAAGTATGATGATGATGATGATGATGATGATGATG	268		

Db 184 CGTATACAGATGAGCCTAGGTCGGAATTAGCTAGTGTGAGATGAGTATGCTACCAAGGCG 243  
Qy 269 AGCATCTAGTCTGTCTGAGAGATGATCAGCCACACCGGAGCTGAGACACGGCCCGA 328  
Db 244 AGCATCCGTAACGTGCTCTGAGAGATGATCAGTCACTGAGAACTGAGACACGGTCCAA 303  
Qy 329 CT-CTACGGGAGGACAGTGGGAAATTGGAACAATGGNGGAACTTGATCCAGCAT 387  
Db 304 CTCCTACGGGAGGACAGTGGGAAATTGGAACAATGGGCGAAACCTGATCCAGCAT 363  
Qy 388 GCGGCGTGTGTAAGAAAGCCTTTGTGTAAGACCTTTAAGCATGAAGAACTCT 447  
Db 364 GCGGCGTGTGTAAGAAAGCCTTTGTGTAAGACCTTTAAGCATGAAGAAAGGCGAT 423  
Qy 448 TCGGTTAATACCGGAGGAGCATGATAGCTGACAGATTAAGACCGGCTTAATCTGTGC 507  
Db 424 TAACTTAATACCTTACTGTTTGAAGTACCTGACAGAAATTAAGACCGGCTTAATCTGTGC 483  
Qy 508 CAGCAGCCGCGGTAATACAGAGGGTCAAGCGTTAATCGGAATTACTGGGCGTAAAGCGA 567  
Db 484 CAGCAGCCGCGGTAATACAGAGGGTCAAGCGTTAATCGGAATTACTGGGCGTAAAGCGC 543  
Qy 568 GCGTAGTGGCTGTAATAGTCAGATGTGAATCCCGGCTTAATCTGGGAACTGATCT 627  
Db 544 GCGTAGTGGCTGTAATAGTCAGATGTGAATCCCGGCTCAACCTGGGAACTGATCT 603  
Qy 628 GAAACTGTAGGCTAGATAGTGAAGGGAATGAATTTGAGTGTAGCGGTGAATG 687  
Db 604 AAACCTGACAGCTTAAGATAGTGAAGGCTGTAATTTCTGTGTAGCGGTGAATG 663  
Qy 688 CGTAGAGATCTGAAGGAATACCGATGCGGAAGGCGAGCTTCTGGCATCATACTGACATG 747  
Db 664 CGTAGATATAGGAAGGAACACCGATGCGGAAGGCGAGCTTCTGGCATCATACTGACATG 723  
Qy 748 AGGCTGGAAGAGCTGGGTAGCAAAACAGATTAATATCCTGTGATGTCACCGCTTAAG 807  
Db 724 AGGTGGAAGAGCTGGGTAGCAAAACAGATTAATATCCTGTGATGTCACCGCTTAAG 783  
Qy 808 ATGTCTACTAGTGTGTTGGGCTCCTTAGAGACTAGTGAAGCACTAAACGAATTAAGTGA 867  
Db 784 ATGTCAACTAGCCGTTGGGAGCTTGAAGCTTTAGTGGGAGCACTAAACGAATTAAGTGA 843  
Qy 868 CCGCTCTGGGAGATACGGCCGCAAGGTTAAAATCAATGAATTTGAAGGAGGCGCCGCA 927  
Db 844 CCGCTCTGGGAGATACGGCCGCAAGGTTAAAATCAATGAATTTGAAGGAGGCGCCGCA 903  
Qy 928 GCGGTGAGACATGTGTTTAATTCGAATGCAACCGCAAGAACTTACCAAGGCTTGAATC 987  
Db 904 GCGGTGAGACATGTGTTTAATTCGAATGCAACCGCAAGAACTTACCAAGGCTTGAATC 963  
Qy 988 CACAGAACTTGTAGATACGAGATGCTCGGGAATTTGTAACAGGTGCTGATG 1047  
Db 964 CATAGAACTTTCAGAGATGAGATGAGTGGTCTTGGGAACTTGAACAGAGTGTGATG 1023  
Qy 1048 CTGTCTGAGCTGTGTCTGAGATGTTGGTTAAGTCCCGCAACGAGCGCAACCTTGT 1107  
Db 1024 CTGTCTGAGCTGTGTCTGAGATGTTGGTTAAGTCCCGTAAACGAGCGCAACCTTGT 1083  
Qy 1108 CCTTAATTACAGCAC-TCGCGGTGGAACTCTAAGGAATCTGCCAGTGAACAATCGAG 1166  
Db 1084 CCTTAATTACAGCACGTAATGTGGCACTCTAAGGAATCTGCCAGTGAACAACCGAG 1143  
Qy 1167 GAAGGCGGGAAGCAAGTCAAGTCAATGAGGCTTGAACGAGGCTTGAACAAGTCTAC 1226  
Db 1144 GAAGGCGGGAAGCAAGTCAAGTCAATGAGGCTTGAACGAGGCTTGAACAAGTCTAC 1203  
Qy 1227 AATGTAGGTACAGAGGAGCTACACAGCGATGTGATCGAATCTCAAAAAGCTATG 1286  
Db 1204 AATGTAGGTACAGAGGAGCTTGAACGAGCGGAGGTGAGCTTAATCCCAAAACGATG 1263  
Qy 1287 TAGTCCAGATTGAGTCTCAACTGACTTCATGAAGTAGAATCGTATGATCGCGA 1346  
Db 1264 TAGTCCAGATTGAGTCTCAACTGACTTCATGCGTAGAAGTGGAAATCGCTAGTATCGCGA 1323

Qy 1347 TCAGATGCGCGGGAATACGTTCCCGGACCTTGTACACACCGCCGTCACACCATGG 1406  
Db 1324 TCAGATGCGCGGGAATACGTTCCCGGACCTTGTACACACCGCCGTCACACCATGG 1383  
Qy 1407 AGTTAATTGACACGAAGTGTAGCTTAA-CTTAGTGAAGGCGATACACAGTGTGT 1465  
Db 1384 AGTGGGTTCACCAAGAGTAGTACTTAACCTTGGGAGGACGGTTACACAGTGTGT 1443  
Qy 1466 CGATGACGCGGGAAGTCTTAAACAGGTAAGCCGTAGGGAACCTGGCTGATCAC 1523  
Db 1444 TCATGACGCGGGAAGTCTTAAACAGGTAAGCCGTAGGGAACCTGGCTGATCAC 1501

RESULT 9  
US-10-266-787-5  
; Sequence 5, Application US/10266787  
; Publication No. US2003008277A1  
; GENERAL INFORMATION:  
; APPLICANT: Yano, Tetsuya  
; APPLICANT: Imamura, Takeshi  
; APPLICANT: Suda, Sakae  
; APPLICANT: Homma, Tsubomu  
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme  
; FILE REFERENCE: 03500.015225.3  
; CURRENT APPLICATION NUMBER: US/10/266,787  
; PRIOR FILING DATE: 2002-10-09  
; PRIOR APPLICATION NUMBER: JP 2000-095004  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: Microsoft Word  
; SEQ ID NO 5  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376  
; FEATURE: cdna to 16S rRNA  
US-10-266-787-5

Query Match 72.0%; Score 1098.6; DB 5; Length 1501;  
Best Local Similarity 85.9%; Pred. No. 1.6e-288;  
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

Qy 30 GCGGCGAGCTTAAACATGCAAGTCGAGCGGAACGATGATGCTGTAGGCGTC 89  
Db 9 GCGGCGAGCTTAAACATGCAAGTCGAGCGG--ATGACGGAGCTTGTCTGTAATTGA 66  
Qy 90 GAGCGCGGAGCGGTGATTAATTAAGAACTTAAGTGTAGGAGATGCTCGG 149  
Db 67 G---CGGCGAGCGGTGATTAATTAAGAACTTGAAGTGTAGGAGATGCTCGG 123  
Qy 150 GAAACTCGAATTAATACCGCATAGT-CTAGGGAAGAAAGCGGGGATCATTAAGCTTG 208  
Db 124 GAAAGGAGCGCTTAATACCGCATAGTCTTACGGGAAAGCGGGGACTTTCGGGCTTG 183  
Qy 209 CGCTATGATGAGCGCTTAAGTCGATGATGATGATGATGATGATGATGATGATGATGATG 268  
Db 184 CGCTATGATGAGCGCTTAAGTCGATGATGATGATGATGATGATGATGATGATGATGATG 243  
Qy 269 AGCATCTGAGTGTCTGAGAGATGATCAGCCACACCGGAGCTGAGACACGGCCCGA 328  
Db 244 AGCATCCGTAACGTGCTCTGAGAGATGATCAGTCACTGAGAACTGAGACACGGTCCAA 303  
Qy 329 CT-CTACGGGAGGACAGTGGGAAATTGGAACAATGGNGGAACTTGATCCAGCAT 387  
Db 304 CTCCTACGGGAGGACAGTGGGAAATTGGAACAATGGGCGAAACCTGATCCAGCAT 363  
Qy 388 GCGGCGTGTGTAAGAAAGCCTTTGTGTAAGACCTTTAAGCATGAAGAACTCT 447  
Db 364 GCGGCGTGTGTAAGAAAGCCTTTGTGTAAGACCTTTAAGCATGAAGAAAGGCGAT 423  
Qy 448 TCGGTTAATACCGGAGGAGCATGATAGCTGACAGATTAAGACCGGCTTAATCTGTGC 507

Db	424	TAACCTAATACGTAAGTCTTTTGAACGTTACCGACAGAAATTAAGCAACCGGCTAACTCTGTGC	483
Oy	508	CAGCAGCCCGCGTAAATACAGAGGGTGCAGCGCTTAATCGAATTACTGGGCGTAAACGGA	567
Db	484	CAGCAGCCGCGGTAAATACAGAGGGTGCAGCGCTTAATCGAATTACTGGGCGTAAACGCG	543
Oy	568	GCGTAGGTGGCTTGAATAGTCAGATGTGAAATCCCGGGGCTTAACCTGGGAACTGCATCT	627
Db	544	GCGTAGGTGGCTTGTTAAGTGTGAAAGTAAAGCCCCGGGCTCAACTGGGAACTGCATTC	603
Oy	628	GAATCTGTAGGCTAGAGTAGGTGAGAGGAAAGTGAATTCAGGTGAGCGGTGAATG	687
Db	604	AAATCTGCAAGCTAGAGTAATGTAGAGGGGTGTGGAATTTCTGTATAGCGGTGAATG	663
Oy	688	CGTAGAGATCTGAAGGAATACCGATGGCGAAGCAGCTTCGTGCATCATATCGACACTG	747
Db	664	CGTAGATATATGAAGGAACACCAAGTGGCGAAGGCCAACCTGCAGCTGATCTGACACTG	723
Oy	748	AGGCTCCGAAAGCGTGGGTAGCAAAACAGGATTAAGATACCTGTGTATCCAGCCCGTAAACG	807
Db	724	AGGTGCGGAAACGTGGGGAGCAAAACAGATTAAGATACCTGTGTATCCAGCCCGTAAACG	783
Oy	808	ATGTCTACTAGTCGTTGGGTCCCTTGAAGAACTTAGTGAACGACGTAAACGAATAGTAGA	867
Db	784	ATGTCAACTAGCCGTTGGAGCTTTAGACTCTTAATGTGGCGACGCTAAGCAATTAAGTTGA	843
Oy	868	CCGCTGGGGAGTAGACGGCCGCGCAGGTTAAATCTCAATGAATGAACGGGGCCGCAAA	927
Db	844	CCGCTGGGGAGTAGACGGCCGCGCAGGTTAAATCTCAATGAATGAACGGGGCCGCAAA	903
Oy	928	GCGGTGAGCATGTGCTTTAATTGATGCATGCACGCGAAGAACCTTACCTGTCTTGACATA	987
Db	904	GCGGTGAGCATGTGCTTTAATTGCAACCAACGCGAACAACCTTACCGAGCTTGAACATC	963
Oy	988	CACAGAACTTGTAAAGATACGAGAGTCCCTTGGGGAATTGGAATACAGGTGCTGCATAG	1047
Db	964	CAATGAACCTTTCACAAGATGATGTGGTGTCTTGGGGAACATTGAACAGGTGCTGCATAG	1023
Oy	1048	CTGTGTCAGCTCGTGTGTCGTAGATGTGGGTTAAGTCCCGCAAGCAGCGCAACCTTGT	1107
Db	1024	CTGTGTCAGCTCGTGTGTCGTAGATGTGGGTTAAGTCCCGTAAAGAGACGCAACCTTGT	1083
Oy	1108	CCTTAGTTACACGACAC-TTCGGGTGGGAATCTAAGATATCTGCAGTGCACAACTGAG	1166
Db	1084	CCTTAGTTACACGACAGTAAATGTTGGGCACTCTAAGAGAACTGCCGTGACAAACCGGAG	1143
Oy	1167	GAGGCGGGGAGCAGAGTCAAGTCATCATGTGCCCCCTTAACGACCGGGCTTACACGTGTAC	1222
Db	1144	GAGGCTGGGAGAGAGGTCAAGTCATCATGTGCCCCCTTAACGAGCCGTGCTACACGTGTAC	1203
Oy	1227	AATGTAGGTACAGAGGGGAGCTTACACAGCGATGTGATCGAATCTCAAAAAGCTTATCG	1288
Db	1204	AATGTTCGGTACAGAGGGGTTCGCAAGCCGCGAGGTGAGCTAATCCACAAAACCGATCG	1265
Oy	1287	TAGTCAGATTGGAGTCTGCAACTCGACTCCATGAAGTAGAATCGCTAAGTATGCGGA	1346
Db	1264	TAGTCGCGGATCGCAGTCTGCAACTCGACTCGTGAAGTGGAAATCGCTAGTATGCGGA	1322
Oy	1347	TCAGAAATCGCGGTGTGAATAGTTCCCGGGCTTGTACACACCGCCGTCAACCATATGGG	1407
Db	1324	TCAGAAATGTGCGGTGTGAATACTTCCCGGGCTTGTACACACCGCCGTCAACCATATGGG	1383
Oy	1407	AGTTGATTGCAACAGAGTGTGTAGCTTA-CTTAGTGAAGGCGATACCAACGATGTGGT	1465
Db	1384	AGTTGATTGCAACAGAGTGTGTAGCTTAAGTTTGGGAGAGCGGTTACACGATGTGTAT	1444
Oy	1466	CGATGACTGGGGTGAAGTGTGAACAAGGTAAGCCGTAGGGGAACTTGCGGCTGGAATCAC	1523
Db	1444	TCATGACTGGGGTGAAGTGTGAACAAGTAAAGCGTAAAGGGAACCTTGCGGCTGGAATCAC	1501

Sequence 5, Application US/10252518  
Publication No. US20030087413A1  
GENERAL INFORMATION:  
APPLICANT: Yano, Tetsuya  
APPLICANT: Imamura, Takeshi  
APPLICANT: Suda, Sakae  
APPLICANT: Honma, Tautomu  
TITLE OR INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme  
FILE REFERENCE: 03500, 015225.2  
CURRENT FILING DATE: 2002-09-24  
PRIORITY FILING DATE: 2000-03-30  
PRIORITY FILING DATE: 2000-03-30  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Microsoft Word  
SEQ ID NO 5  
LENGTH: 1501  
TYPE: DNA  
ORGANISM: Pseudomonas jesseni P161 ; BP-7376  
FEATURE:  
FEATURE: cDNA to 16S rRNA  
US-10-252-518-5

Query Match 72.0% Score 1098.6; DB 5; Length 1501;  
Best Local Similarity 85.9%; Pred. No. 1.6e-288;  
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

30 GCGCGCAGGCTTAACACATGCAATCGACGCGAAGCATGATAGCTTCTATTAGCGTC 89  
9 GCGCGCAGGCTTAACACATGCAATCGACGCGAAGCATGATAGCTTCTATTAGCGTC 66  
90 GAGCGCGCGAGCGGTGAGTAATCTTAGGAATCTACCTAGTAGTGGGGGATAGCTCGG 149  
67 G---CGGCGGAGCGGGGAGTAATGCTTAGGAATCTCGGTAGTGGGGGACAAAGCTC 123  
150 GAACTCGAATTAATACGCGATACGT-CTACGGGAGAAAGCAGGGGTCATTAGACCTTG 208  
124 GAAAGGAGCGCTAATACGCGATACGTCTTAGGGAAGAACAGGAGACCTTCGGGCTTG 183  
209 CGCTATTAGATGAGCTTAAGTCGATTAAGCTAGATGATGGGCTAAAGGCTTACCATTG 268  
184 CGCTATCAGATGAGCTTAGCTGAGTATGCTAGTATGCTAGTATGCTAGTATGCTAGT 243  
269 ACGATCTGTAGCTGCTGAGAGATGATGACCAACCGGAGCTGAGACAGCGCCGGA 328  
244 ACGATCTGTAGCTGCTGAGAGATGATGACCAACCGGAGCTGAGACAGCGCCGGA 303  
329 CT-CTACGGGAGGCGACATGCGGGAATTTGACCAATGAGGGAACCTGATCCAGCAT 387  
304 CTCTACGGGAGGCGACATGCGGGAATTTGACCAATGAGGGAACCTGATCCAGCAT 363  
368 GCGCGGTGTGAAGAAGGCTTTTGTGTGAAGCACTTAAGCAGTGAAGAAGCTCT 447  
364 GCGCGGTGTGAAGAAGGCTTTTGTGTGAAGCACTTAAGCAGTGAAGAAGGCTCT 423  
448 TCGGTTAATACCGGAGCATGATGATGATGATGATGATGATGATGATGATGATGATG 507  
424 TAACCTAATACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 483  
508 CAGCAGCGCGGCTTAATACAGAGGTCGAAGCTTAATCGGAATTAATCGGCGCTAAAGGA 567  
484 CAGCAGCGCGGCTTAATACAGAGGTCGAAGCTTAATCGGAATTAATCGGCGCTAAAGGA 543  
568 GCGTAGTGGCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 627  
544 GCGTAGTGGCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 603  
628 GAACTGTAGCTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAG 687  
604 AAACTGACAGCTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAG 663  
688 CGTAGAGTCTGAGGAATACCGATGCGGAGGAGCTTCTGATCATATGACATG 747

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Db      664 CGTAGATATAGAGAGAACACAGTGGCGAAGCGGACCACTGGACTGATTAAGTACATCG 723
Qy      748 AGGCTGAAAGCGTGGGTAGCAAAACAGAGATTAGATACCTGGTAGTCCAGCGGTAAAG 807
Db      724 AGGTGCAAAAGCGTGGGAGCAAAACAGATTAGATACCTGGTAGTCCAGCGGTAAAG 783
Qy      808 ATGTCTACTAGTCTGTGGGTCCCTTGAAGACTTATGAGCGACGCTAACCAATTAAGTAGA 867
Db      784 ATGTCAATAGCCGTTGGGAGCCTTAGCTTATAGTGGGAGCTTAACCATTAAGTTGA 843
Qy      868 CGGCTCGGGAGTAGACGGCCGCAAGGTTAAAATCTCAATATGATGAGGGGGCCCGACAA 927
Db      844 CGGCTCGGGAGTAGACGGCCGCAAGGTTAAAATCTCAATATGATGAGGGGGCCCGACAA 903
Qy      928 GGGGTGAGACATGTGGTTTAAATTCAGTGAACGCGAAGAACCTTACCTGTCTTGACATA 987
Db      904 GGGGTGAGACATGTGGTTTAAATTCAGTGAACGCGAAGAACCTTACCAAGCCTTGACATC 963
Qy      988 CACAGATCTTGTAGATACGAGAGTGGCTTGGGAAATTTGTATACAGGTGCTGCATGG 1047
Db      964 CATGAACTTTCCAGAGATGAGATGGGTGCTTGGGAACTTTGAGACAGGTGCTGCATGG 1023
Qy      1048 CTGTCTCAGCTCTGTCTGTAGATGTTGGGTTAAAGTCCCGCAACGAGCGCAACTTGT 1107
Db      1024 CTGTCTCAGCTCTGTCTGTAGATGTTGGGTTAAAGTCCCGTAAACGAGCGCAACTTGT 1083
Qy      1108 CCTTATTTACAGCAC-TTCCGGGTGGGAACTCTTAAGATTAAGCCAGTGAACAACTGGAG 1166
Db      1084 CCTTATTTACAGCACGTAATGTTGGGCACTTTAAGAGAACTGCGGTGACAAACGGAG 1143
Qy      1167 GAAGCGGGAGACGATCAAGTCATGAGCCCTTACGACAGAGGCTACACAGCTGCTAC 1226
Db      1144 GAAGGTGGGAGTAGACGTCAAGTCATGAGCCCTTACGCGCTGGGCTTACACAGTCTAC 1203
Qy      1227 AATGTAGGTACAGAGGCGACCTACAGCGATGTATGCGAATCTCAAAAACCTTATG 1286
Db      1204 AATGTAGGTACAGAGGCTTGGCCAAACCGAGGTGAGCTAATCCAAAACCATG 1263
Qy      1287 TAGTCCAGATTGGAGTCTGCAACTGCACTGCATGAAGTGAAGTGGCTATGTCGGGA 1346
Db      1264 TAGTCCGAGTCCGAGTCTGCAACTGCACTGCGTAAGTGGAAATCCCTAGTAACTCGAA 1323
Qy      1347 TCAGAAATGCGCGGTGAATACGTTCCGGGCTTTGTACACACGCCCTGACACCATGG 1406
Db      1324 TAGAATGTGCGGTGAATACGTTCCGGGCTTTGTACACACGCCCTGACACCATGG 1383
Qy      1407 AGTTGATTGCAACCAAGTGTGTTAGCTTAA-CTTATGAGGGGATCACACGCTGTGAT 1465
Db      1384 AGTGGGTTGCAACCAAGTGTGTTAGCTTAACTTCCGGAGGACGGTTACACGCTGTGAT 1443
Qy      1466 CGATGCTGGGGTAGTGTGTAACAAGTAGCCGTAGGGGAACTTGGGCTGGATCAC 1523
Db      1444 TCATGCTGGGGTAGTGTGTAACAAGTAGCCGTAGGGGAACTTGGGCTGGATCAC 1501

RESULT 11
US-10-105-305-1
; Sequence 1, Application US/10105305
; Publication No. US20030096182A1
; GENERAL INFORMATION:
; APPLICANT: CANON KAISHI KAISHA
; TITLE OF INVENTION: POLYHYDROXYALKANATE CONTAINING UNIT WITH THIENYL STRUCTURE IN TH
; TITLE OF INVENTION: CHAIN PROCESS FOR ITS PRODUCTION, CHARGE CONTROL AGENT, TONER E
; TITLE OF INVENTION: TONER WHICH CONSTRAIN THIS POLYHYDROXYALKANATE, AND IMAGE-FORMING
; TITLE OF INVENTION: IMAGE-FORMING APPARATUS WHICH MAKE USE OF THE TONER
; FILE REFERENCE: CFO16309
; CURRENT APPLICATION NUMBER: US/10105,305
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: JP 2001-090026, JP 2001-133551
; PRIOR FILING DATE: 2001-3-27, 2001-4-27
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
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; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-10-105-305-1
Query Match      72.0%; Score 1098.6; DB 5; Length 1501;
Best Local Similarity 85.9%; Pred. No. 1.6e-288;
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

Qy      30 GCGCGCAGGCTTAAACATGCGCAAGTCGAGCGGAAACGATGATAGCTGTGCTATTAAGCCGC 89
Db      9 GCGCGCAGGCTTAAACATGCGCAAGTCGAGCGGAAACGATGATAGCTGTGCTATTAAGCCGC 66
Qy      90 GAGCAGCGGAGCGGTGAGTATTAATCTTAAGATCTTAAGTATGAGTGGGAGTACGTCGG 149
Db      67 G---CGGGAGACGGGTGAGTATGCTAGAAATCGCTGGTATGAGGGGACAAAGTCTC 123
Qy      150 GAAATCTGAATTAATCCGATACGT-CTACGGGAGAAAGCAGGGGATCATTAAGACTTG 208
Db      124 GAAAGGAGCGCTAAATACCGCATACGCTTACGGGAGAAAGCAGGGGACCTTGGGCTTG 183
Qy      209 CGCTATTGATGAGCTTAAGTCGATTAAGTGTGAGTGGGGTAAAGGCTACATGGCG 268
Db      184 CGCTATCAGATGAGCTTATGCTGAGTGAATGCTTATGCTTATGCTTATGCTTATGCTTATG 243
Qy      269 ACGATCTGTAGCTGTCTGAGAGATGATCAAGCCACACCGGACCTGAGACAGCGCCGGA 328
Db      244 ACGATCCGTAACCTGCTTGAAGAGATGATCACTGGAATGAGACAGCGTCCAG 303
Qy      329 CT-CTACGGGAGGCGACGCTGGGAAATTTGGACATAGGNGGAAACCTGATCCAGCAT 387
Db      304 CTCTTACGGGAGGCGACGCTGGGAAATTTGGACATAGGNGGAAACCTGATCCAGCAT 363
Qy      388 GCCGCTGTGAGAAAGAGCGCTTTGTGTTAAACACTTTAAAGCAGTGAAGAAAGCTCT 447
Db      364 GCCGCTGTGAGAAAGAGCTTTGTGTTAAACACTTTAAAGCAGTGAAGAAAGCTCT 423
Qy      448 TCGGTTAATACCCGGGAGCATGACATTAAGCTGCAATTAAGCACCGGCTTAATCTGTGC 507
Db      424 TAACTTAATAGTTAGTTAGTTGTTGACGTTAACGACGAATTAAGCACCGGCTTAATCTGTGC 483
Qy      508 CAGCAGCGCGGTAAATTAACAGAGGTGCAAGCTTAAATGGAATTAATCTGGGCTTAAAGCGA 567
Db      484 CAGCAGCGCGGTAAATTAACAGAGGTGCAAGCTTAAATGGAATTAATCTGGGCTTAAAGCGC 543
Qy      568 GGTAGGTGGCTTGAATAGTCAAGTGTGAAATCCCGGGCTTAACCTGGGAACTGCATCT 627
Db      544 GGTAGGTGGCTTGAATAGTGTGAAATCCCGGGCTTAACCTGGGAACTGCATCT 603
Qy      628 GAACTGTTAGCTAGAGTGTGAGAGGAGTGAATTTTCAGGTGTATAGCGGTGAATG 687
Db      604 AAAACTGAACAAGCTAGAGTGTGAGAGGTGTGAATTTTCAGGTGTATAGCGGTGAATG 663
Qy      688 CGTAGATCTGAAGAAATACCGATGGCGAAGGCAAGCTTCTTGCACTATTAATGACATCG 747
Db      664 CGTAGATTAAGGAAGAAACACAGTGGGAGGAGGCAACCACTGCACTGACATGACATCG 723
Qy      748 AGGCTGGAAGGAGGTGAGCAAAACAGATTAAGTATACCTGGTAGTCCAGCGGTAAAG 807
Db      724 AGGTGCAAAAGCGTGGGAGCAAAACAGATTAGATACCTGGTAGTCCAGCGGTAAAG 783
Qy      808 ATGTCTACTAGTCTGTGGGTCCCTTGAAGACTTATGAGCGACGCTAACCAATTAAGTAGA 867
Db      784 ATGTCAATAGCCGTTGGGAGCCTTAGCTTATAGTGGGAGCTTAACCATTAAGTTGA 843
Qy      868 CGGCTCGGGAGTAGACGGCCGCAAGGTTAAAATCTCAATATGATGAGGGGGCCCGACAA 927
Db      844 CGGCTCGGGAGTAGACGGCCGCAAGGTTAAAATCTCAATATGATGAGGGGGCCCGACAA 903
Qy      928 GGGGTGAGACATGTGGTTTAAATTCAGTGAACGCGAAGAACCTTACCTGTCTTGACATA 987
Db      904 GGGGTGAGACATGTGGTTTAAATTCAGTGAACGCGAAGAACCTTACCAAGCCTTGACATC 963
Qy      988 CACAGATCTTGTAGATACGAGAGTGGCTTGGGAAATTTGTATACAGGTGCTGCATGG 1047
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Db 964 CAATGAACCTTTCCAGAGATGATGGTGGCTTCGGAAACCTTGACAGAGCTGTCATG 1023  
Qy 1048 CTGTCTCAGCTCTGTCTGTGATGATGTGGTTAAGTCCCGCAACGAGCGAACCTTGT 1107  
Db 1024 CTGTCTCAGCTCTGTCTGTGATGATGTGGTTAAGTCCCGTAAACGAGCGAACCTTGT 1083  
Qy 1108 CCTTAATTACAGAC- TTCCGGGTGGAACTCTAAGATATCTCCAGTGAACAACTGGAG 1166  
Db 1084 CCTTAATTACAGACGTAATGTTGGGCACTCTAAGAGACTGCCGTGACAAACCGGAG 1143  
Qy 1167 GAAAGGGGGAGACGCTCAAGTATGATGGCCCTTAAGACAGGGGCTACACAGCTGTAC 1226  
Db 1144 GAAAGTGGGGATACGTCAAATCATATGAGCCCTTAAGGCTGGCTACACAGTGTAC 1203  
Qy 1227 AATGTAGGTACAGAGGGCAGCTACACAGCATGTGATGCGAATCTCAAAAAGCCTATCG 1286  
Db 1204 AATGTCTGCTACAGAGGTTGCCAAGCCGAGGTGAGCTAATCCACAAACCGATCG 1263  
Qy 1287 TAGTCAGATTGAGTCTGCACTGCACTTCATGAAAGTAAATCCGTAGTAATCCGGGA 1346  
Db 1264 TAGTCCGATTCGACAGTCTGCACTGCACTGCAAGTCCGAATCCGTAGTAATCCGGA 1323  
Qy 1347 TCGAATGCCGCGGTGTAATCGTCCCGGCTTTGTAACACCGCCGTCACACATCGG 1406  
Db 1324 TCGAATGTCTGCGGTGTAATCGTCCCGGCTTTGTAACACCGCCGTCACACATCGG 1383  
Qy 1407 AGTTGATTGACAGAAAGTGGTTAGCCTAA-CTTAAGAGAGGCGATCACACGCTGTGT 1465  
Db 1384 AGTGGTTGACAGAAAGTACGTAACTTCGAGAGACGCTTACACAGCTGTGT 1443  
Qy 1466 CGATGACTGGGGTGAAGTCTGTAAACAAGTACCGGTAGGGAACTGCGCTGATCAC 1523  
Db 1444 TCATGACTGGGGTGAAGTCTGTAAACAAGTACCGGTAGGGAACTGCGCTGATCAC 1501  
RESULT 12  
US-10-133-404A-1  
Sequence 1, Application US/10133404A  
Publication No. US20030104302A1  
GENERAL INFORMATION:  
APPLICANT: Teutomu Honma  
APPLICANT: Teisuya Yano  
APPLICANT: Teiyooshi No. US20030104302A1cto  
APPLICANT: Shinya Kozaki  
TITLE OF INVENTION: Construct and Method for Making It  
FILE REFERENCE: CPO16374  
CURRENT APPLICATION NUMBER: US/10/133,404A  
CURRENT FILING DATE: 2002-08-15  
PRIOR APPLICATION NUMBER: JP P2001-131694  
PRIOR FILING DATE: 2001-04-27  
PRIOR APPLICATION NUMBER: JP P2001-208704  
PRIOR FILING DATE: 2001-07-10  
NUMBER OF SEQ ID NOS: 13  
SEQ ID NO 1  
LENGTH: 1501  
TYPE: DNA  
ORGANISM: Pseudomonas jessenii 161 strain  
US-10-133-404A-1  
Query Match 72.0%; Score 1098.6; DB 5; Length 1501;  
Best Local Similarity 85.9%; Pred. No. 1,6e-288;  
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;  
Qy 30 GCGGCGAGGCTTAACATGCAATGCAAGTCAAGCGGAAACGATGATGCTGTAATTAGGGTC 89  
Db 9 GCGGCGAGGCTTAACATGCAATGCAAGTCAAGCGG--ATACGGGACCTTGCTCTGAATTCA 66  
Qy 90 GAGNGCCGAGCGGGTGAATATCTTAAGATCTAAGTATGAGGAGTACCTCGG 149  
Db 67 G---CGGCGAGCGGGTGAATATCTTAAGATCTGCTGTATGGGGGCAACGCTC 123  
Qy 150 GAAACTGAATTAATACCGCATACGT-CTACGGAGAAAAGCAGGGGANTCATTAGACCTTG 208

Db 124 GAAAGGAGCGCTAATACCGCATACGTCACGGGAGAAAGCAGGGGACCTTGGGCTTG 183  
Qy 209 CGCTATTAGATAGCCCTAAATGCGATTAAGTCAATGATGTTGGGTAAAGGCTTACATGGG 268  
Db 184 CGCTATTAGATAGCCCTAAGTGGTGGATTAAGTCAATGATGTTGGGTAAAGGCTTACATGGG 243  
Qy 269 AAGATCTGATGCTGTGAGAGATGATCAGCAGCAGCGGAGCTGAGACAGGCGCGGA 328  
Db 244 AAGATCTGATGCTGTGAGAGATGATCAGCAGCAGCGGAGCTGAGACAGGCTGATCAGCAG 303  
Qy 329 CT-CTACGGAGGAGCAGCAGTGGGGAATATTGACATGAGGAGAACTCTGATTCAGCCAT 387  
Db 304 CTCCTACGGAGGAGCAGCAGTGGGGAATATTGAGCAATGGGCGAAGGCTGATCAGCCAT 363  
Qy 388 GCGGCTGTGTGAAGAAAGGCTTTGGTGTGAAGCATTGAAGCAGTGAAGAACTCT 447  
Db 364 GCGGCTGTGTGAAGAAAGGCTTTGGTGTGAAGCATTGAAGTGGGAGGAGGAGCAT 423  
Qy 448 TCGGTTAATACCGGGAGAGATGACATTAGCTGCAAGAAATAGACCGGCTAATCTGTGC 507  
Db 424 TAACTTAATACGTTAGTGTGTTTGAAGTACGACAGAAATAGACCGGCTAATCTGTGC 483  
Qy 508 CAGCAGCCGCGGTATATACAGAGGTCACAGCCTTAATCGGAAATTAAGTGGGCTGAAGCGA 567  
Db 484 CAGCAGCCGCGGTATATACAGAGGTCACAGCCTTAATCGGAAATTAAGTGGGCTGAAGCGG 543  
Qy 568 GCGTAGTGGCTTGAATAGTCAAGATGTAATCCCGGCTTAACTGCGGAACTGCAATCT 627  
Db 544 GCGTAGTGGCTTGAATAGTCAAGATGTAATCCCGGCTTAACTGCGGAACTGCAATCT 603  
Qy 628 GAAACTGTTAGCTAAGTGAAGTGAAGGAAATTAATTAAGTGAAGGCTGTAAGT 687  
Db 604 AAAACTGAACAAGCTAAGTGAAGTGAAGGAAATTAATTAAGTGAAGGCTGTAAGT 663  
Qy 688 CGTAGAGTCTGAAGGAATACCGATGCGAAGGCAAGCTTCTGCGCATCACTGACACTG 747  
Db 664 CGTAGATTAAGGAAGGAACACAGTGGCGAAGGCGACACCTGAGTCACTGACACTG 723  
Qy 748 AGGCTCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCAGCCGTTAAAG 807  
Db 724 AGGTGCGAAAGCGTGGGTAGCAAAACAGATTAGATACCTGTAGTCCAGCCGTTAAAG 783  
Qy 808 ATGTCTAATAGTGTGGTCCCTTGAAGACTTAAGTGAAGGCGACTTAACGAATTAAGTGA 867  
Db 784 ATGTCTAATAGTGTGGTCCCTTGAAGACTTAAGTGAAGGCGACTTAACGAATTAAGTGA 843  
Qy 868 CGGCTGGGGAGTACGCGCGCAAGTAAACTCAATGAAATGACGCGGGGCGCGACAA 927  
Db 844 CGGCTGGGGAGTACGCGCGCAAGTAAACTCAATGAAATGACGCGGGGCGCGACAA 903  
Qy 928 GCGGTGAGCATGTGTTTAATTGATGCAACCGGAGAACTTACCTGTGTGATCA 987  
Db 904 GCGGTGAGCATGTGTTTAATTGATGCAACCGGAGAACTTACCTGTGTGATCA 963  
Qy 988 CACAGAACTTTGAGAGATACGAGATGCTTTGGGAAATTGATACAGGTGCTGATGG 1047  
Db 964 CAATGAACCTTCCAGAGATGATGAGTGGCTTTGGGAACTTAAGACAGGTGCTGATGG 1023  
Qy 1048 CTGTCTCAGCTCTGTCTGTGATGATGTGGTTAAGTCCCGCAACGAGCGAACCTTGT 1107  
Db 1024 CTGTCTCAGCTCTGTCTGTGATGATGTGGTTAAGTCCCGTAAACGAGCGAACCTTGT 1083  
Qy 1108 CCTTAATTACAGAC- TTCCGGGTGGAACTCTAAGATATCTCCAGTGAACAACTGGAG 1166  
Db 1084 CCTTAATTACAGACGTAATGTTGGGCACTCTAAGAGACTGCCGTGACAAACCGGAG 1143  
Qy 1167 GAAAGGGGGAGACGCTCAAGTATGATGGCCCTTAAGAGCTGAGACAGGCTTACACAGTGTAC 1226  
Db 1144 GAAAGTGGGGATACGTCAAATCATATGAGCCCTTAAGGCTGGCTACACAGTGTAC 1203  
Qy 1227 AATGTAGGTACAGAGGGCAGCTACACAGCATGTGATGCGAATCTCAAAAAGCCTATCG 1286

Db 1204 AATGTCGGTACAGAGGGTTCCAGACCCGAGGTGAGCTAATCCACAAAACCGATCG 1263  
Qy 1287 TAGTCAGATTGGAGTCTCGAACTCGACTCCATGAGTAGAATCGCTAGTAATCCGGGA 1346  
Db 1264 TAGTCCGGATCGAGACTGTGCACTCGACTCGGTAAGTGGAACTCGCTAGTAATCCGGA 1323  
Qy 1347 TCAGAAATGCCCGCGTGAATACGTTCCCGGCTTGTACACCCGCTCACCATGGA 1406  
Db 1324 TCAGAAATGTCGCGGTGAATACGTTCCCGGCTTGTACACCCGCTCACCATGGA 1383  
Qy 1407 AGTGAATTCGACCAAGAGTGTAGCTTA-CTTAGTAGGGGATCACCGGTGTGT 1465  
Db 1384 AGTGGTTCGACCAAGAGTGTAGCTTA-CTTAGTAGGGGATCACCGGTGTGT 1443  
Qy 1466 CGATGACTGGGAGTGTAGCTTA-CTTAGTAGGGGATCACCGGTGTGT 1523  
Db 1444 TCATGCTGGGAGTGTAGCTTA-CTTAGTAGGGGATCACCGGTGTGT 1501

## RESULT 13

US-10-242-696-1  
; Sequence 1, Application US/10242696  
; Publication No. US20030180899A1  
; GENERAL INFORMATION:  
; APPLICANT: Honma, Tsutomu  
; APPLICANT: Kobayashi, Toyoko  
; APPLICANT: Yano, Tetsuya  
; APPLICANT: Kobayashi, Shin  
; APPLICANT: Imanura, Takeshi  
; APPLICANT: Suda, Sakae  
; APPLICANT: Kenmoku, Takashi  
; TITLE OF INVENTION: Process for producing polyhydroxyalkanoate by utilizing microorga  
; FILE REFERENCE: 03500.015010.1  
; CURRENT APPLICATION NUMBER: US/10/242,696  
; PRIOR FILING DATE: 2002-09-13  
; PRIOR APPLICATION NUMBER: JP 11-371864  
; PRIOR FILING DATE: 12-27-1999  
; PRIOR APPLICATION NUMBER: JP 11-371867  
; PRIOR FILING DATE: 12-27-1999  
; PRIOR APPLICATION NUMBER: JP 11-371868  
; PRIOR FILING DATE: 12-27-1999  
; PRIOR APPLICATION NUMBER: JP 11-371869  
; PRIOR FILING DATE: 12-27-1999  
; PRIOR APPLICATION NUMBER: JP 2000-023024  
; PRIOR FILING DATE: 01-31-2000  
; PRIOR APPLICATION NUMBER: JP 2000-023025  
; PRIOR FILING DATE: 01-31-2000  
; PRIOR APPLICATION NUMBER: JP 2000-361323  
; PRIOR FILING DATE: 11-28-2000  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: Microsoft Word  
; SEQ ID NO 1  
; LENGTH: 1501  
; TYPE: DNA  
; ORGANISM: Pseudomonas jesseni p161 ; FERM P-17445  
US-10-242-696-1

Query Match 72.0%; Score 1098.6; DB 6; Length 1501;  
Best Local Similarity 85.9%; Pred. No. 1.6e-288;  
Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

Qy 30 GGGGCGAGCTTAACACATGCGAGCGGAAAGATGATGCTTGTATTAAGCGTC 89  
Db 9 GGGGCGAGCTTAACACATGCGAGCGG--ATGAGCGGAGCTTGTCTCGAATTGA 66  
Qy 90 GAGCGCGGAGCGGTGAGTAACTTGAAGATCTAAGTGTGGGGATAGCTCGG 149  
Db 67 G---CGCGGAGCGGTGAGTAACTGCTTGAAGATCTGCTGTGAGTGGGAGCAACGTC 123  
Qy 150 GAAGCTGGAATTAATCGCATACGTA-CTTAGCGGAGAGAGCGGGGNTATTAGACTTG 208  
Db 124 GAAGGAGAGCTTAATCGCATACGTCCTTAGCGGAGAGAGGGGACCTTGGGCTTG 183

Qy 209 CGCTATTAGATGAGCTTAAGTGAATAGTATGATGTGGGTAAAGGCTTACATGCGG 268  
Db 184 CGCTATTAGATGAGCTTAAGTGAATAGTATGATGTGGGTAAAGGCTTACATGCGG 243  
Qy 268 AGGATCTGATGCTTGTGAGAGATGATCAGCCACACCGGAGCTGAGACAGCGCCGA 328  
Db 244 AGGATCTGATGCTTGTGAGAGATGATCAGCCACACCGGAGCTGAGACAGCGCCGA 303  
Qy 328 CT-CTTAGCGGAGAGAGCTTGTGGGATTTGAGCAATGGGGAACCTGATCCAGCAT 387  
Db 304 CTCTTAGCGGAGAGAGCTTGTGGGATTTGAGCAATGGGGAACCTGATCCAGCAT 363  
Qy 388 GCGCGGTGTGAGAGAGCTTGTGGGATTTGAGCAATGGGGAACCTGATCCAGCAT 447  
Db 364 GCGCGGTGTGAGAGAGCTTGTGGGATTTGAGCAATGGGGAACCTGATCCAGCAT 423  
Qy 448 TGGGTTAATCCCGGAGAGATGACATTAAGTGTGAGCAATAGCACCCTTAAGTGTG 507  
Db 424 TAACTTAATCCTTGTGTGTGAGCTTAACGACAGAAATAGCACCCTTAAGTGTG 483  
Qy 508 CAGCAGCGCGGTAAATACAGAGAGGTGCAAGGCTTAATCGAATTAATCGGCGTAAAGCA 567  
Db 484 CAGCAGCGCGGTAAATACAGAGAGGTGCAAGGCTTAATCGAATTAATCGGCGTAAAGCA 543  
Qy 568 GCGTAGTGTGCTTGAATAGTGAATGATGAAATCCCGGCTTAATCGGCGTAAAGCA 627  
Db 544 GCGTAGTGTGCTTGAATAGTGAATGATGAAATCCCGGCTTAATCGGCGTAAAGCA 603  
Qy 628 GAAGCTGTTAGGCTTGAATAGTGAATGATGAAATCCCGGCTTAATCGGCGTAAAGCA 687  
Db 604 GAAGCTGTTAGGCTTGAATAGTGAATGATGAAATCCCGGCTTAATCGGCGTAAAGCA 663  
Qy 688 GCTAGAGATCTGAAGAAATACAGAGAGGTGCAAGGCTTAACTGATCACTGACACTG 747  
Db 664 GCTAGAGATCTGAAGAAATACAGAGAGGTGCAAGGCTTAACTGATCACTGACACTG 723  
Qy 748 AGGCTGAAGAGGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 807  
Db 724 AGGCTGAAGAGGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 783  
Qy 808 ATGCTTACTAGTCTGTTGGGCTCCCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAG 867  
Db 784 ATGCTTACTAGTCTGTTGGGCTCCCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAG 843  
Qy 868 CGGCTGGGAGTGAAGGCGGCAAGGTTAAATCAATGAATGAAGGCGGCGGCAAGCA 927  
Db 844 CGGCTGGGAGTGAAGGCGGCAAGGTTAAATCAATGAATGAAGGCGGCGGCAAGCA 903  
Qy 928 GCGGTGAGCATGTGTTAATTCGATGCAAGCGCAAGAACCTTACTGTCTTGAAGTGA 987  
Db 904 GCGGTGAGCATGTGTTAATTCGATGCAAGCGCAAGAACCTTACTGTCTTGAAGTGA 963  
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Qy 1048 CTGCTGAGCTCGGTGTGATGATGTTGGGTTAAGTCCCGAAGAGCGCAACCTTGT 1107  
Db 1024 CTGCTGAGCTCGGTGTGATGATGTTGGGTTAAGTCCCGAAGAGCGCAACCTTGT 1083  
Qy 1108 CTTTGTATACGAGC-CTCGGTGGAATCTTAAGTACTGCAAGTGAACAACTGAG 1166  
Db 1084 CTTTGTATACGAGC-CTCGGTGGAATCTTAAGTACTGCAAGTGAACAACTGAG 1143  
Qy 1167 GAAGCGGAGAGAGCTGATCATAGGCTTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1226  
Db 1144 GAAGCGGAGAGAGCTGATCATAGGCTTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1203  
Qy 1227 AATGTAGGTGAGAGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1286  
Db 1204 AATGTAGGTGAGAGAGAGAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1263  
Qy 1287 TAGTCAGATTGGAGTCTGCAACTGCACTGCAATGAGTAAGTAAGTGAATCGCGGA 1346



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Db      1264  ||||| 1264 TAGTCGGATCGGATCTTGCACCTGACCTGCGAAGTGGAAATCGCTAGTAATCGCGAA 1323
Qy      1347  TCAGATGCGCGCGGTGAATACGTTCCCGGCGCTTGTACAACCGCCGCTACACCATGGG 1406
Db      1324  TCAGATGTCGGGTGAATACGTTCCCGGCGCTTGTACAACCGCCGCTACACCATGGG 1383
Qy      1407  AGTTGATTGACCAAGAGTGTAGCTTA-CTTAGTAGGGGATACCAAGGTGTGT 1465
Db      1384  AGTGGGTTCACACCAAGATGATGCTTAACCTTCGGAGAGACGTTACCAAGGTGTGT 1443
Qy      1466  CGATGCTGGGGAGTGTGTAACAAGTACCGGTAGGGGAACCTGCGGCTGATCAC 1523
Db      1444  TCATGACTGGGTGAAGTGTCTACCAAGTACCGGTAGGGGAACCTGCGGCTGATCAC 1501
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RESULT 14  
US-10-411-319-1

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/ Sequence 1, Application US/10411319
/ Publication No. US20030208029A1
/ GENERAL INFORMATION:
/ APPLICANT: Canon Inc.
/ TITLE OF INVENTION: Polyhydroxamate, Method For Production Thereof And Microorganisms
/ FILE REFERENCE: In The Same
/ FILE REFERENCE: 03500.015001.1
/ CURRENT APPLICATION NUMBER: US/10/411,319
/ PRIOR FILING DATE: 2003-04-11
/ PRIOR APPLICATION NUMBER: US 09/748,205
/ NUMBER OF SEQ ID NOS: 1
/ SOFTWARE: Patent version 3.1
/ SEQ ID NO 1
/ LENGTH: 1501
/ TYPE: DNA
/ ORGANISM: Pseudomonas jessenii 161 strain
US-10-411-319-1
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Query Match 72.0%; Score 1098.6; DB 6; Length 1501;  
Best Local Similarity 85.9%; Pred. No. 1.6e-288;

Matches 1287; Conservative 0; Mismatches 202; Indels 9; Gaps 6;

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Qy      30  GGGGCGAGCTTAACACATGCAAGTCGAGGGAACGATGATAGCTTGAATTAAGGCTC 89
Db      9  GGGGCGAGGCTTAACACATGCAAGTCGAGCGG--ATGACGAGCTTGTCTGAATTCA 66
Qy      90  GAGCGCGGAGCGGCTGATTAATCTTGAAGATCTTCTAGTAGTGGGAGTAGCTCGG 149
Db      67  G---CGGCGAGCGGCTGATTAATCTTGAAGATCTTCTAGTAGTGGGAGTAGCTCG 123
Qy      150  GAAACTGGAATTAATACCGCATACGT-CTACGGGAGAAAGCAAGGGNTCAATTAGAC 208
Db      124  GAAAGGAGCGCTAATACCGCATACGTCTACGGGAGAAAGCAAGGGACCTTCGGGCT 183
Qy      209  CGCTAATTAAGATGACCTTAATGCTGAATGCTGATGCTGATGCTGAATGCTGAAT 268
Db      184  CGCTAATTAAGATGACCTTAATGCTGAATGCTGATGCTGATGCTGAATGCTGAAT 243
Qy      269  ACGATCTGTAGCTGTCTGAGAGAGATGATGACGACACCGGAGCTGAGACACGCG 328
Db      244  ACGATCTGTAGCTGTCTGAGAGAGATGATGACGACACGCTGAGACACGCGTCCAG 303
Qy      329  CT-CTACGGAGGAGGAGAGTGGGGAATATTGACAATGAGNGGAAACCTGTATCCAG 387
Db      304  CTCTTACGGAGGAGGAGAGTGGGGAATATTGACAATGAGNGGAAACCTGTATCCAG 363
Qy      388  GCGCGGTGTGTGAAGAGGCTTTTGTGTGAAGACCTTAAACAGTGAAGAGACTCT 447
Db      364  GCGCGGTGTGTGAAGAGGCTTTTGTGTGAAGACCTTAAACAGTGAAGAGGAGCAT 423
Qy      448  TCGGTTAATACCGGGGAGCATGACATTAGCTGAGAAATAGACACCGGCTAATCTGT 507
Db      424  TAACCTAATACCGTTAGTGTGTTTGAAGCTTACCGAAGAAATAGACACCGGCTAAT 483
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Qy      508  CAGACCGCGGTAAATACAGAGGTGCAAGCTTAATCGAATTAATCTGGCGTAAAGCG 567
Db      484  CAGACCGCGGTAAATACAGAGGTGCAAGCTTAATCGAATTAATCTGGCGTAAAGCG 543
Qy      568  GCGTAGTGTGTGAATTAAGTCAATGTGAATTCCTGGGCTTAATCTGGGAACTGTAT 627
Db      544  GCGTAGTGTGTGAATTAAGTCAATGTGAATTCCTGGGCTTAATCTGGGAACTGTAT 603
Qy      628  GAAACTGTAAAGCTTAAGTGAAGGAGGAAATTTTGAAGGTGTAAGGCTGTAAGT 687
Db      604  AAAAATGACAACTTAAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 663
Qy      688  CGTAGAGTCTGAAGGAAATACCAATGCGAAGGAGCTTCTGGGCTTAATCTGAAC 747
Db      664  CGTAGAGTCTGAAGGAAATACCAATGCGAAGGAGGAGGAGGAGGAGGAGGAGGAG 723
Qy      748  AAGCTTGAAGGAGTGTGAGCAAAACGATTAATTAATCTGTAGTTCACGCGCTTAAC 807
Db      724  AAGTGGAAAGCGTGGGAGCAAAACGATTAATTAATCTGTAGTTCACGCGCTTAAC 783
Qy      808  ATGTCTAATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 867
Db      784  ATGTCTAATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 843
Qy      868  CGGCTTGGGAGATGAGCGCGCAAGGTTAAACTCAATGAATTAAGAGGAGGAGGAG 927
Db      844  CGGCTTGGGAGATGAGCGCGCAAGGTTAAACTCAATGAATTAAGAGGAGGAGGAG 903
Qy      928  GCGGTGAGCATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 987
Db      904  GCGGTGAGCATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 963
Qy      988  CACAGATCTTGTAGATACAGAGATGCTTGTGGGAAATTTGATACAGGTGTGATG 1047
Db      964  CACAGATCTTGTAGATACAGAGATGCTTGTGGGAAATTTGATACAGGTGTGATG 1023
Qy      1048  CTGTGTGACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1107
Db      1024  CTGTGTGACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1083
Qy      1108  CCTTAATTAACAGCAC-TTGCGGTGGGAACTTAAGGATTAATCTGACAGTGAACA 1166
Db      1084  CCTTAATTAACAGCACAGTAAATGTTGGGCACTTAAGGATTAATCTGACAGTGA 1143
Qy      1167  GAGGCGGAGGAGCAAGTCAATGATCATGTGCTTTCAGACAGGCTTAACAGTGTAC 1226
Db      1144  GAGGCGGAGGAGCAAGTCAATGATCATGTGCTTTCAGACAGGCTTAACAGTGTAC 1203
Qy      1227  AATGTAGATACAGAGGAGGAGCTTACAGGATGTATGGAATTCAAAAGCTTAATG 1286
Db      1204  AATGTAGATACAGAGGAGGAGCTTACAGGATGTATGGAATTCAAAAGCTTAATG 1263
Qy      1287  TAGTCGAGATTGAGTCTGCAATCTCATGAAATGGAATGCTTAATTCGCGGA 1346
Db      1264  TAGTCGAGATTGAGTCTGCAATCTCATGAAATGGAATGCTTAATTCGCGGA 1323
Qy      1347  TCAGAAATGTCGGGTGAATTCGTTCCCGGCTTGTACAACCGCCGCTACACATGG 1406
Db      1324  TCAGAAATGTCGGGTGAATTCGTTCCCGGCTTGTACAACCGCCGCTACACATGG 1383
Qy      1407  AGTTGATTGACCAAGAGTGTAGCTTA-CTTAGTAGGGGATACCAAGGTGTGT 1465
Db      1384  AGTGGGTTCACCAAGATGATGCTTAACCTTCGGAGAGACGTTACCAAGGTGTGT 1443
Qy      1466  CGATGACTGGGTGAAGTGTGAACAAGTACCGGTAGGGGAACCTGCGGCTGATCAC 1523
Db      1444  TCATGACTGGGTGAAGTGTGAACAAGTACCGGTAGGGGAACCTGCGGCTGATCAC 1501
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## RESULT 15

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US-10-649-646-1
/ Sequence 1, Application US/10649646
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